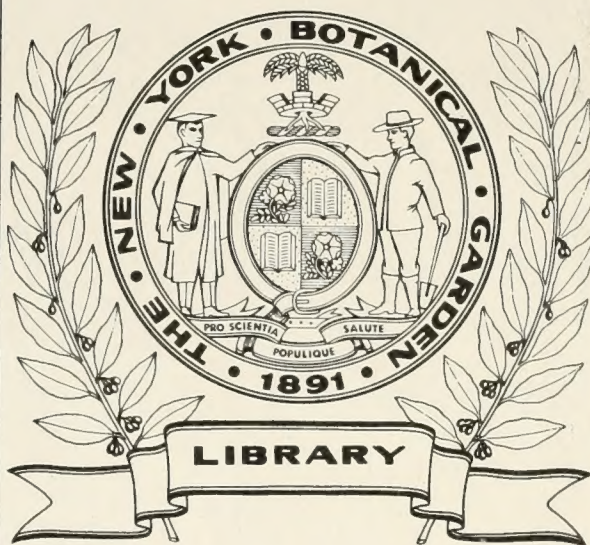




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HORTICULTURE

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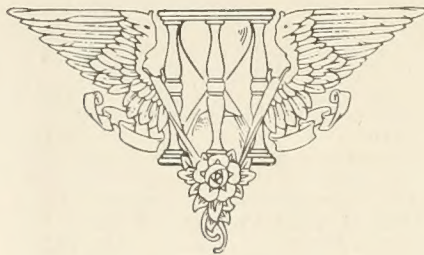
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No. 1
JAN. 6
1917

HORTICULTURE



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SEE PAGES 26, 27, 28, 29

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toil, we ought to blame the culture, not the soil."—*Pope*.

Asparagus

It will pay any florist to sow quite a batch of *Asparagus plumosus*, *A. Sprengeri*, etc. The seed should be sown now in pans within an inch of the top with sifted loam and leaf mold in equal parts, with a little sand. Press the material moderately firm and on this sow the seed, covering them about three times their diameter and again press the surface over. Place them in a temperature of about 70 degrees at night and keep them shaded until they come up when they can have all the light. When they have attained a size large enough to handle they should be moved singly into small pots, using fibrous loam, leaf mold and well-rotted cow manure in equal parts and placed well up to the light and in a temperature of 60 degrees.

Chrysanthemums

Stock plants of the older varieties should have care to assure good stock. Plants cannot be expected to throw healthy cuttings if they are hidden away from the sunlight. Stock plants should be brought up to the light at once, even if you have to throw something else out. It may seem quite early to begin propagating, but where there is any intention to grow show blooms or plants now is the time to begin. Again it is not at all unusual for a new variety to be condemned the first year because the buyer has propagated it late and to the utmost limit, and the plants have not had a chance to prove themselves. Many cuttings are permanently weakened by being left in the sand and allowed to make a weak, attenuated growth and long spindly roots. As soon as the cuttings have roots half an inch or so in length, get them out right away and pot into soil with a temperature not higher than 50 degrees at night.

Dracaena

Plants pressed every now and then into service soon lose their individual beauty and become shabby and useless even for this sort of work. Retail growers in whose line of business decorating with plants plays a prominent part, generally make free use of dracaenas. Cut into pieces of from one to two inches long, the thickest to be split lengthwise of the stems, the heaviest of the roots to be treated in the same way, and all these pieces to be strewn thinly over a bottom-warmed layer of pure sand. If kept moderately but constantly moist and bottom heat does not give out before that time little plants of half a finger's length will in 20 to 30 days work their way up through the top covering. A hothouse propagating case answers best, though a pretty warm corner of the common propagating bench covered with spare sashes will also do. Pot in two and a half or three inch pots, using soil, leaf mold and sand in equal parts, and place back in a warm house.

Mignonette

When the crop of spikes begins to show give them some liquid manure twice a week. It helps to develop the flower heads. Cut out any straggly or twiggy growth, keep the plants nicely tied up and disbud from time to time. Give the beds a good cleaning and then a top-dressing of cow or sheep manure mixed with equal parts of soil which will help the hungry surface roots to sustain the plants in a vigorous growth. To produce high-grade spikes the temperature of about 45 degrees should be kept during the night, as mignonette is a cool-blooded annual. The constitutional vigor of the plants depends to a great degree upon properly adjusted ventilation. Bench-grown mignonette should now be showing up well for this is the season when they produce the finest spikes and will continue good up to April. Give good culture from now on. It is well now to make a sowing in pots which can be planted out in a violet house or any other cool house in the spring.

Roses in Pots

All roses potted in November expected to be in bloom for Easter, must now be started into growth. In a temperature as low as between 40 and 45 degrees for about ten days there is much gained in the starting of active root fibres before the leaf buds show any appreciable new life; these roses want from about eleven to twelve weeks from start to finish and nearly five weeks of this for the development of the flower buds at their first appearance into open or opening bloom at the end of the course. Sixty degrees should be the maximum heat for Rambler roses, a few degrees less being preferable if time permits. Hybrid roses will invariably reach a more perfect finish in 55 degrees than in a temperature much higher. It is best to afford the greater amount required after the buds have formed, and five degrees higher during the last stages in forcing usually suffice to make good lost time.

Reminders

Any hydrangeas wanted for Easter should be brought into gentle warmth now.

Propagate heliotropes, salvias, geraniums and other bedders at all convenient times.

A sprinkling of soot and nitrate of soda on growing benches of smilax will improve their color.

Keep the surface soil cultivated between the violets and give occasional sprinkling of bone meal.

Pot pelargoniums very firmly and place them in a light house where the temperature runs about 55 degrees at night.

Cut back a few double petunias and place them in a light and warm position so they will produce plenty of cuttings.

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Insurance of Holland shipments We have information to the effect that the Holland shippers have arranged to insure themselves against loss on shipments of plants and bulbs to this country. Something on this order was attempted last year, we think. The plan as now in operation is to cover damage or any deterioration to the goods in transit from any cause until they have reached their final destination. It is a question how long the arrangement may last. The object is to protect the Dutch shippers against claims by buyers for damage, which have been very frequent of late and its operation should be to the general

advantage. Local buyers, unfortunately, do not always do their part to facilitate the process by promptly reporting to the Hollander when shipments are received in damaged condition. This may be often due to a lack of knowledge of the foregoing. All claims should be made immediately on arrival of the goods.

Are you paying too much? We have heard many complaints from business men who are in a position to know, of overcharging by express companies. Bulbs, plants, etc., are second-class express matter, but it would seem to

be the practice of the carriers to charge first-class rates whenever they think they can "get by" and many shippers and receivers, either from ignorance or carelessness, are being mulcted right along by this form of petty robbery. It should be the business of every florist and seedsman to find out just what his rights are in this respect. Demand a rate book or at least the privilege of seeing it before paying expressage, so that the unfair practice be discontinued as much as possible. The explanation sometimes given by the carriers is that they do not know the case contents, but surely it is their business to know what they are carrying. Transportation companies will stand watching, as has been repeatedly shown, both as to weight and rate. Their 30-story office buildings and large investments in real estate are ever-present examples of their avarice. Are you paying too much?

Preventable losses From all accounts that have come to us about the Christmas and New Year business it would appear that much loss has been sustained in the aggregate by flower and plant growers and dealers, particularly in the large business centers during the holiday season just past. The weather played a large part in the trouble, transportation delays and freezing of stock in transit being prolific causes of complaint. Is it not possible to materially reduce the percentage of loss from these two causes at such times? We all realize the stupendous difficulties that confront the transportation companies at holiday time but the traffic in flowers is now large enough to warrant special attention the year through and more discriminating care in handling shipments than is usually bestowed on them. As to the second trouble—freezing of material in transit—the shippers themselves are sometimes far from blameless. The majority of cases of loss from freezing are preventable. However balmy the weather conditions may be at the time, all packing at this season of the year on goods to be sent by express or parcel post, should be done on the presumption that they will be exposed to excessive cold. Then, if goods are delivered frozen, carelessness on the part of the carriers will be apparent. Another cause of loss and bitterness this season was the recurrence of the old discredited foolishness of over-kept flowers. Argument or appeal is lost on some people. Just as sure as a holiday approaches, the fit seizes them and they are "at it again" regardless of the inevitable consequences to themselves individually and to the trade at large. What should be done with these idiots?

SOCIETY OF AMERICAN FLORISTS —AND— ORNAMENTAL HORTICULTURISTS

NEW YEAR'S GREETINGS.

From Robert C. Kerr, President, S. A. F. and O. H.—1917

We are at the beginning of a new year, and again thinking of our friends. The splendid old year has gone, taking its many seasonable possibilities, but gives us in keeping a beautiful New Year. The three hundred and sixty-five days of the year just passed were filled to overflowing with many opportunities to acquire happiness by spreading sunshine among our friends. We wish our friends success.

And with the possibilities of this New Year comes a ray of hope for peace between the warring nations, our friends, our brothers; a conception of which, when accomplished, will consti-

accomplished, will constitute success.

May the whole New Year be one round of friendships, joyous days of labor and tasks well done.

President R. C. Kerr is sending out a personal letter to each of the State Vice-Presidents, as follows:

My Dear Sir:

As president of the S. A. F. and O. H., I congratulate you upon your acceptance of the office of State Vice-President, and I believe your acceptance will warrant my earnest desire for full and hearty co-operation on all subjects of interest to our organization.

Do not overlook the fact that you are the headquarters representative in your state, and I have full confidence in your ability to serve our Society in an energetic and intelligent manner.

Of course, it is only natural for you to have the interests of your local organization at heart, but I sincerely trust, and in fact know that you will make special efforts to make the Society of which you are State Vice-President, one of the largest organizations in your territory. It is incumbent upon you to direct your attention to securing as many new members as possible, and of taking care of the various interests of the present members in a businesslike manner.

It is also your duty to get in touch with each and every member of our Society in your state and obtain their co-operation, which I am quite positive will be given you.

Have you considered that the next convention promises to be the largest gathering of our S. A. F. and O. H. that has ever been held in America? Just instill into the members in your state the fact that great things are in store for them.

It is natural for you to expect that this office will aid you in every possible way to make a success of your administration, which, of course, it is needless to say, we will most gladly do.

I know that we shall reap our reward at New York, and I would be unworthy of your consideration, should I think but that it was your co-operation and assistance which aided to make our administration a great success, which I am sure it will be.

It is for the above reasons that I am writing you this personal letter. Always bear in mind that I will assist you whenever called upon, or on other occasions when necessary. Do not let this opportunity for service stray from your doorway.

Yours respectfully,

(Signed) R. C. KERR,
President of S. A. F. and O. H.

President R. C. Kerr announces the following appointments to take effect January 1st, 1917:

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ROBERT C. KERR

President Society of American Florists.

tute once more, joy, smiles, laughter and work, which leads to their success.

The heart of every American florist goes out in sympathy to our fellow craftsman who are located in the warring nations. Let us each and all wish for an early peace, in order that it may alleviate suffering humanity and restore prosperity and happiness among them.

And may the widened circle of our S. A. F. and O. H. organization in our own land give the New Year distinction in our calendar, as that in which the blessings and good of the organization were made more manifest than ever before to the communities which have been fortunate to have had the S. A. F. and O. H. in trust.

I wish each and all success, or better still, may each one realize his own ideals in his own life, which, when



THOMAS ROLAND

Reappointed Member National Flower Show Committee for Six Years.

2 years; Gustav N. Amrhyn, New Haven, Conn., 1 year.

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At the Houston Convention the report of this committee was referred to the Executive Board for action. The committee is therefore reappointed until their work is completed.

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Dr. T. F. Headlee, Agricultural Experiment Station, New Brunswick, N. J.

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JOHN YOUNG, Sec'y.

December 30, 1916.

LADIES S. A. F.

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Mrs. CHAS. H. MAYNARD, Secy.
6 North Ave. E., Pittsburgh, Pa.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

This club will hold its postponed Field Day at Framingham on Saturday, January 20th. Special car will

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Monday, Jan. 8.

Cleveland Florists' Club, Hollenden Hotel, Cleveland, Ohio.
Gardeners' and Florists' Club of Baltimore, Florists Exchange Hall, Baltimore, Md.

New York Florists' Club, Grand Opera House, New York City.
Rochester Florists' Association, 95 Main St., East Rochester, N. Y.

Tuesday, Jan. 9.

Newport Horticultural Society, Newport, R. I.

Wednesday, Jan. 10.

Cincinnati Florists' Society, Jabez Elliott Flower Market, Cincinnati, O.
Dutchess County Horticultural Society, Falkill Bldg., Poughkeepsie, N. Y.

Lenox Horticultural Society, Lenox, Mass.

Morris County Florists' and Gardeners' Society, Madison, N. J.

Nassau County Horticultural Society, Pembroke Hall, Glen Cove, N. Y.

Thursday, Jan. 11.

Menlo Park Horticultural Society, Menlo Park, Calif.

New London Horticultural Society, Municipal Bldg., New London, Conn.

Friday, Jan. 12.

Connecticut Horticultural Society, County Building, Hartford, Conn.

Westchester and Fairfield Horticultural Society, Doran's Hall, Greenwich, Conn.

Saturday, Jan. 13.

Dobbs Ferry Gardeners' Association, Dobbs Ferry, N. Y.

THE HORTICULTURAL SOCIETY OF NEW YORK.

An exhibition of this society will be held on January 13 and 14 at the American Museum of Natural History. The monthly shows have usually been held for the afternoon only, but it has been decided to try the experiment of holding them for two days. This one will be open on Saturday afternoon, and also on Sunday afternoon. There are classes open to all and others restricted to non-commercial growers. Prizes are offered for cut flowers of orchids, carnations, sweet peas, *Buddleia asiatica*, *schizanthus*, and *antirrhinums*. Premiums are also offered for primula and begonia plants. Special prizes may also be awarded by the exhibition committee for unusual exhibits, and such exhibits are requested.

There will be a lecture at 4 on Saturday afternoon, the 13th, on "Darwin and Other Tulips" by John Scheepers. This will be illustrated with colored lantern slides. Schedules are now ready for distribution, and may be had by addressing the secretary, George V. Nash, New York Botanical Garden, Bronx Park, N. Y. City.

GEORGE V. NASH, Secy.

AMERICAN CARNATION SOCIETY.

Prospective exhibitors at the American Carnation Society meeting, January 31 and February 1, will kindly bear in mind that entries in the competitive classes will close on January 22. A penalty of \$2 will be imposed on each entry made after that date. Please mail your entries early and make entry in every class in which there is a possibility of your showing. That will save you expense and the secretary work and confusion. The premium schedule has been mailed out. If you need another, drop the secretary a postal.

Everything points to a successful convention. Word comes from every direction of large delegations. The local society is planning entertainment for a large attendance and is leaving nothing undone to make your stay both pleasant and profitable.

"Carnation Yellows" will again be up for discussion. Another subject will be "How can we improve the marketing of carnation blooms?" Please come prepared to give your views.

A. F. J. BAUR, Sec.

AMERICAN GLADIOLUS SOCIETY.

The variety "Prosperity" is offered for registration by Arthur Cowe, Berlin, N. Y. If no objections are filed with the committee requiring the withdrawal of the name, the registration will become complete January 30, 1917. The following is a description:

The plant is tall, most striking, and attractive. Its massive proportions, broad, heavy foliage of a rich green, erect and vigorous habit of growth, give evidence of a strong constitution. Flowers are large. Color is a bright rose shading to madderlake, except the last segment, which has a chamois-



G. E. M. STUMP

President New York Florists' Club.

leave Park Square at 1 P. M. sharp. A cordial invitation is extended to anyone interested to attend.

Installation of officers and Ladies' Night will be held on Tuesday evening, January 18th. There will be a special entertainment, followed by a collation and dancing.

yellow base. Anthers violet, styles white. Unsurpassed as a keeper.

A. C. BEAL, Chairman.

CHRYSANTHEMUM SOCIETY OF AMERICA.

The following reports have been submitted by the committee appointed by the society:

Exhibited by C. T. Guenther, Hamburg, N. Y., at New York, Dec. 18, Hamburg Late White, sport of Maud Dean, white, Jap. Inc., com. points 85; same at Boston, Dec. 14, com. points 83; same at Philadelphia, Dec. 14, com. points 88. CHAS. W. JOHNSON, secy.

CLUB AND SOCIETY NOTES

The next meeting of the Cincinnati Florists' Society will be held on Monday evening, January 8.

Richard Rothe gave an illustrated lecture on "Rock Gardens" at the regular monthly meeting of The Florists' Club of Philadelphia January 2nd.

At the November meeting of the Florists' and Gardeners' Club of R. I. a motion was made to the effect that the club disband. This proposition was taken up at the meeting on December 21, with the result that a unanimous vote was given not to disband. The club is in a good financial condition, better in fact than for a number of years.

The Philadelphia local committees of the Rose Society had a meeting on January 4th. The holiday rush being now over, active advance work for the Rose Show is the order of the day. The whole board of the society met at the Bellevue on January 3rd and added still more to the enthusiasm. A fine show is assured. Now we've got to make a big fuss about it to get the necessary attendance. G. C. W.

CULTURE OF BOGONIA REX.

Editor of HORTICULTURE:

Dear Sir:—Would like to know if any of your experts can give me any information regarding the cultivation of Begonia Rex. Can they be successfully grown in a Cattleya house? Yours very truly, A. J. P. New Jersey.

Begonia Rex requires a light, rich soil, plenty of moisture and a shaded position in the greenhouse. The following mixture I have found to give good satisfaction.

Fibrous loam with well-rotted cow manure, leaf soil and sharp sand with a little fine ground bone.

If large plants are required they should be repotted whenever the pots are filled with roots. In summer it is well to keep the pots sitting on moss, kept moist. They respond to liberal feeding with cow or sheep manure water. They will do well in a temperature of 55 to 60 degrees at night, with a rise of 10 to 15 degrees by day. I should say that they can be grown in a cattleya house. DAVID F. ROY, Marion, Mass.

A BIG WEEK PLANNED AT ITHACA.

The Department of Floriculture at Cornell University is arranging an interesting program for Farmers' Week, which comes this year from February 12 to 17, inclusive. The program is arranged to include a wide list of subjects so that some phase may be of interest to all visitors.

On Tuesday, February 13, at 9 o'clock, Miss L. A. Minns will speak on "Some Books Every Garden Lover Should Own." At 10 A. M. Mr. E. C. Volz will discuss "Methods for Prolonging the Keeping Qualities of Cut Flowers," and he will be followed at 11 A. M. by Mr. C. L. Thayer on "Hardy Lilies."

On Wednesday the New York State Federation of Horticultural Societies and Floral Clubs will hold a meeting at Ithaca and the following program will be presented: At 9 A. M. "Roses in Greenhouses and Their Breeding" will be discussed by Professor E. A. White; at 10 A. M. Professor David Lumsden will speak on "Orchids and Orchid Breeding." The Department of Landscape Art has arranged for a lecture at 11 A. M. by Mr. Henry Hicks of Westbury, Long Island, on "Making Home Grounds Attractive." At 12 o'clock an informal luncheon will be held for delegates from the affiliated societies. The afternoon program will consist of a discussion of "Garden Roses and their Culture," by Dr. A. C. Beal, and "Diseases of Roses" by Dr. L. M. Massey. This will be followed at 4 P. M. by a business meeting of the Federation.

On Thursday at 9 o'clock Dr. R. Matheson will speak on "Insects Which Attack House Plants, and Their Control." At 10 o'clock Professor David Lumsden will discuss "The Value and Management of Amateur Flower Exhibitions." At 11 o'clock Dr. A. C. Beal will speak on "Outdoor Sweet Pea Culture." The afternoon will be devoted to a lecture and demonstration of Flower Arrangement by Professor E. A. White, followed by a round table on questions relating to flower growing.

The program on Friday is arranged more particularly for amateurs. At 9 A. M. Professor Lumsden will discuss "The Home Flower Garden and its Care." At 10 A. M. Mr. E. C. Volz will speak on "Native Plants for the Home Flower Garden." At 11 A. M. Miss L. A. Minns will speak on "Bulbs for In-

door Planting," followed at 12 o'clock by Mr. C. L. Thayer on "Bulbs for Outdoor Planting." In the afternoon there will be a demonstration on various phases of plant work, such as the making of window boxes and baskets, rose protection and pruning, bulb planting, propagation of plants by cuttings and seeds, and soil preparation.

In connection with the above program there will be an exhibition of students' work in table decorations, plant baskets, bouquets, and other cut flower arrangements in the Floricultural Building on Wednesday and Thursday, February 14 and 15. There will also be an exhibit of roses, carnations, violets, sweet peas and other florist crops which will be shown by various specialists in cut-flower production in the eastern states.

DISASTROUS FIRE AT J. C. MONINGER CO. FACTORY.

Fire destroyed the main factory building of the J. C. Moninger Co.'s plant at 912 Blackhawk street, Chicago, on Saturday, December 30. The origin of the fire has not yet been determined but was first discovered at 3 P. M. when nearly all employees were away, it being the custom to shut down the plant at one o'clock on Saturdays. The building is a five story one and was filled with valuable machinery and a large amount of materials for the coming season's work, and many important draftings and other papers pertaining to greenhouse construction. At this writing the papers and books are being taken out as fast as possible. The ice-covered walls are still standing but the loss will be a heavy one and no reliable estimate can be made as yet. It is a sad coincidence, that Nicholas J. Rupp, treasurer of the firm, whose obituary is on another page, lay dead at the time of the fire and firemen were still at work while the funeral was taking place on Sunday.

The John C. Moninger Co. was organized in 1868 and during the almost half century of its existence, has built up such a business that even so great a disaster as the fire will cause but a brief interruption. E. F. Kurowski is president of the firm and his son Rudolph Kurowski is general manager. All orders now in will be taken care of and future orders will be provided for so there will be no delay in the spring work.

INDEX TO VOLUME TWENTY-FOUR

Following recent precedent we shall send copies of the index to Volume XXIV only to those of our readers who make request for them. They are ready now and will be mailed promptly to all who express a desire for same.

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FLOWER POTS.

A. H. Hews & Co., Inc., of Cambridge, Mass., the oldest and largest manufacturers of flower pots in the world, tell us that for the year 1916 their product and sales have been the largest in the history of the company. Coincident with this condition extraordinary increased costs of labor and material have been most discouraging and necessitated some increases in selling prices.

They have recently discontinued their jobbing business in glassware, woodenware, crockery and other household-ware lines, to devote their entire interest to their flower pot manufacturing industry and have taken steps to increase their capacity by adding new machines, kilns, and drying rooms on the property that was devoted to storage for their jobbing business.

Several customers throughout the country have suffered by delays in shipments and transportation during recent months owing to phenomenal demands but the Hews Company now believes it is sufficiently equipped to take care of all demands hereafter. Owing to congestion of requirements of commercial florists coming periodically twice a year it is always urged to place orders for shipment far in advance to assure pots being on hand when wanted. Many florists overlook this and suffer delay because it is a physical impossibility for any factory to ship every order within a two months' period in spring and fall.

It is interesting to learn that the Hews Company used 8,843 tons of clay, 1,653 tons of coal and employed an average of 95 men for their sole industry of manufacturing flower pots during the past year.

The Hews Company are members of the Association of Centenary Firms and Corporations of the United States

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Obituary

Mrs. M. M. Ayres.

We regret to announce that Matilda Mallee Ayres, for many years proprietress of Ayres Floral Co. store, St. Louis, Mo., her successors still holding on to that name, died on Friday, Dec. 9, and was buried January 1st. Mrs. Ayres was the only lady member of the St. Louis Florist Club. When recently retiring from active business she sent in her resignation and the club made her an honorary member. Mrs. Ayres was a very expert artist and was an intense lover of flowers. Her funeral was largely attended and floral offerings numerous.

Nicholas J. Rupp.

The allied trades lost one of their most progressive men when Nicholas J. Rupp passed away at St. Joseph's



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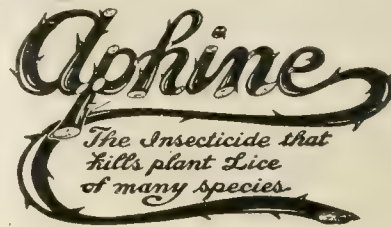
HAMMOND'S PAINT & SLUG SHOT WORKS, Beacon, N. Y.

hospital, Chicago, December 27. His life had been spent in Chicago, where he was born fifty-three years ago and in whose schools he was educated. His business life also was lived in his home city where he devoted all of his best years to the development of greenhouse construction and to him the trade is greatly indebted for many of the modern methods now generally adopted in building.

Mr. Rupp, while still in the prime of life and loving to wrestle with the problems of business, became ill last summer and gradually grew worse till a very serious operation was decided upon as a last resource and which he endured without anesthetic. It was found that the appendix had caused his illness and though he lived four days he had not strength to recover. Mr. Rupp was the leader in the reorganization of the J. C. Moninger Co. in 1893 and was actively in charge of the business till illness prevented. To his skillful management is largely due the commercial leadership of the company he organized. Two years ago his son Walter took his place as secretary and now will also succeed him as treasurer. Mr. Rupp leaves a widow, one son and two daughters. The funeral was held from the residence 3508 Janssen Ave., Sunday and the pall bearers were all employees. Interment was in St. Lucas cemetery.

TO STANDARDIZE TRADE TERMS AND PRACTICE.

A committee of the Ornamental Growers Association with H. P. Kelsey of Salem, Mass., as chairman is preparing a report in the endeavor to standardize trade terms and trade practice in the nursery business. This report would apply also to all horticultural trades and professions, covering particularly florists, seedsmen and fruit growers' activities. In compiling a list of trade terms both as to description of plants in catalogs, grading of plants in the field, and for sale, shipping tags and marks, foreign trade terms, import and export custom and usage, it is desired to make a report as comprehensive as possible, and Mr. Kelsey asks that if any of our readers know of any such lists and will kindly give him the references it will aid the committee very much in its work. A list of trade terms in any line of business would help out considerably.



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<i>Antirrhinum</i> , Nelrose. Silvery pink. .4 pkts., \$1.00	.30	
<i>Antirrhinum</i> , Silver Pink. Originator's strain....	3 pkts., \$2.75	1.00
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<i>Antirrhinum</i> , Daybreak. Light pink, white throat.	.25	1.50
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<i>Aster</i> , Vick's Branching, White.....	.25	1.00
<i>Aster</i> , Daybreak. Shell pink.....	.25	3.50
<i>Aster</i> , Purity. Pure white.....	.25	2.00
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<i>Begonia</i> , Vernon.....	.5 pkts., \$1.00	
<i>Begonia</i> , Vernon grandiflora rosea...5 pkts., \$1.00	.25	
<i>Calendula</i> , Lemon Queen.....	.10	
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<i>Calendula</i> , Prince of Orange.....	.10	
<i>Candytuft</i> , Giant Hyacinth-flowered. White.....	.25	1.00
<i>Candytuft</i> , Empress. Pure white.....	.10	.35
<i>Candytuft</i> , White Rocket.....	.10	.25
<i>Celosia Thompsoni</i> , Crimson.....	.15	1.50
<i>Celosia Thompsoni</i> , Golden Yellow.....	.15	1.50
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<i>Lobelia</i> Spesiosa. Dark blue, trailing.....	.15	.75
<i>Mignonette</i> , Boddington's Majesty. The finest variety.....	1.00	7.50
<i>Mignonette</i> , Allen's Defiance. Very fragrant....	.50	6.00
<i>Mignonette</i> , New York Market.....	.50	6.50
<i>Musa Ensete</i>.....100 seeds, 75c.; 1000 seeds, \$5.00		
<i>Petunia</i> , Double Fringed, Mixed.....½ pkt., 60c.	1.00	
<i>Petunia</i> Century Prize. Giant fringed single.....	½ pkt., 60c.	1.00
<i>Petunia</i> , Ruffled Giants. Splendid mixture.....	3 pkts., \$1.25	.50
<i>Petunia</i> , Bar Harbor Beauty. Rose, splendid bedder.....	.5 pkts., \$1.00	.25
<i>Petunia</i> , Rosy Morn. Carmine pink...5 pkts., 1.00	.25	
<i>Pyrethrum Aureum</i> (Golden Feather).....	.10	.40
<i>Pyrethrum Selaginoides</i> . Bright golden.....	.10	.50
<i>Salvia Clara Bedman</i> . Scarlet, very tall.....	.25	2.50
<i>Salvia splendens</i> . Bright scarlet.....	.20	1.50
<i>Salvia Zurich</i> . Dwarf, scarlet.....	.25	4.00
<i>Shamrock</i> , True Irish.....¼ lb., \$3.00	.25	1.00
<i>Smilax</i>.....	.15	.50
<i>Stevia Serrata</i>.....	.15	1.50
<i>Stock</i> , Ten Week Brilliant Rose.....	.25	4.50
<i>Stock</i> , Ten Week, Crimson.....	.25	4.50
<i>Stock</i> , Ten Week, Purple.....	.25	4.50
<i>Stock</i> , Ten Week, Light Blue.....	.25	4.50
<i>Stock</i> , Ten Week, Snow White.....	.25	4.50
<i>Stock</i> , Cut-and-Come-Again, Apple Blossom. Light pink.....	.25	5.50
<i>Stock</i> , Cut-and-Come-Again, Blue Jay. Light blue.	.25	5.50
<i>Stock</i> , Cut-and-Come-Again, Carmine. Crimson..	.25	5.50
<i>Stock</i> , Cut-and-Come-Again, Princess Alice. White.....	.25	5.50
<i>Stock</i> , Winter, Abundance. Carmine rose.....	6 pkts., \$1.00	.20
<i>Stock</i> , Winter, Beauty of Nice. Daybreak pink...	.25	4.00
<i>Stock</i> , Winter, Crimson King.....	.25	6.00
<i>Stock</i> , Winter, Queen Alexandra. Rosy lilac.....	.25	4.00

Texas Blue Bell. Valuable for pots and shipping. Flowers beautiful blue, 3 to 4 inches across. Trade pkt., 25c.; oz., \$4.00.

	Tr. pkt.	Oz.
<i>Thunbergia</i> , Mixed. For window boxes.....	\$0.10	\$0.75
<i>Verbena</i> , Mammoth Blue.....	.25	1.00
<i>Verbena</i> , Mammoth Pink.....	.25	1.00
<i>Verbena</i> , Mammoth Scarlet Defiance.....	.25	1.00
<i>Verbena</i> , Mammoth White.....	.25	1.00
<i>Verbena</i> , Mammoth Mixed.....	.25	1.00
<i>Vinca alba</i> . White.....	.15	1.00
<i>Vinca rosea</i> . Pink.....	.15	1.00
<i>Vinca rosea alba</i> . Pink and white.....	.15	1.00
<i>Vinca</i> Mixed. Mixed.....	.10	.75

N. B.—The stocks on some of the above varieties will be very short this season. Order early, to make sure of your requirements. 5% DISCOUNT, CASH WITH ORDER

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WEEBER & DON'S New Annual Hybrid Poppies

These poppies by far outclass all of the annual varieties, of this beautiful family of flowers. It originated from the carnation flowered type, but surpasses it with its enormous size blooms, a large portion of which are extra frilled, together with its wonderful profusion of shades and tints fantastically edged and striped with brilliant shades of reds and pinks. Pkt. 25c.

A FEW OF OUR MATCHLESS SPECIALTIES in Flower and Vegetable Seeds

STRAINS AT HIGHEST PERFECTION IN WHICH WE EXCEL

W & D'S PRIZE CLARKIAS.

Scarlet Beauty, Firefly, Chamois Queen, Salmon Queen.
Each, per pkt., 15c.

W & D'S SUPERB GIANT PRIZE CYCLAMEN.

Seven separate colors. Pkt., 75c.; 100 seeds, \$1.50.

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Matchless in perfection, length and thickness of spikes.
Pkt., \$1.00.

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Awarded First Prize at N. Y. Flower Show. The world's best in size, form and coloring. Pkt., 50c.

W & D'S GIANT EXHIBITION LEEK.

A Prize Winner. Pkt., 50c.

W & D'S SELECTED AILSA CRAIG ONION.

Unrivalled in perfection of form, size and weight.
Pkt., 35c.; oz., 75c.; ¼ lb., \$2.50.

THE DON TOMATO

Is the best winter forcing variety, fleshy globe-like fruit of good size, borne in clusters of 7-9. Most prolific. Pkt., 25c.

OUR SPECIAL LIST OF NOVELTIES FOR 1917 IS READY

Every Exhibitor and Gardener should have it. A postal will bring it to you.

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Officers—President, Kirby B. White, Detroit Mich.; First Vice-President, F. W. Bolgiano, Washington, D. C.; Second Vice-President, L. L. Olds, Madison, Wis.; Secretary-Treasurer, C. E. Kendell, Cleveland, O.

AMERICAN SEED TRADE ASSOCIATION.

President White has called a meeting of the Executive Committee for Jan. 30th, at the Vanderbilt Hotel, New York City, to decide on where to hold the next convention and arrange the program. C. E. KENDELL, Secy.

One Week's Imports.

Imports at the port of New York, of horticultural material, for the week ending Dec. 22d, were recorded as follows:

Bulbs—Belgium, \$150; France, \$813; Netherlands, \$27,661; England, \$1,124; Ireland, \$73; Japan, \$9,223.
Plants—France, \$154; Netherlands,

\$24,903; England, \$1,907; Scotland, \$13; Ireland, \$901; Japan, \$65.

Red clover seed—France, \$6,583.

Clover seed—England, \$13; Canada, \$4,850.

Grass seed—Ireland, \$1,278.

Other seeds—France, \$4,705; Netherlands, \$94; England, \$10,539; British East Indies, \$2,630; Morocco, \$3,980; Scotland, \$47; Mexico, \$424; Hong-kong, \$119; Japan, \$5.

Dried blood—Argentina, \$2,110.

Other fertilizers—England, \$91.

T. J. Grey Co., long located at 32 South Market street, Boston, have removed to number 16, same street.

PATENTS GRANTED.

1,208,741. Grass-Edge-Trimming Machine. John Brown, New York, N.Y.

1,209,060. Lawn-Rake. Wilbur A. Snyder, Montoursville, Pa.

1,209,072. Combined Garden Weeder and Pulverizer. Otto H. Temte, Volga, S. D.

1,209,519. Combination-Mower. Samuel P. Townsend, Orange, N. J.

St. Louis—The annual banquet to nurserymen and florists was given at the Buckingham Hotel. About 100 were present. Delegates from the Archeological Institute of America also the American Philological Association were invited.

SCARLET SAGE

We have harvested this Autumn a satisfactory crop of

SCARLET SAGE SEED

And offer of our own growing on Bloomsdale Farms

BONFIRE or CLARA BEDMAN. at \$18.00 per pound

This Sage is fine strain and worth the price we ask. Terms:—Net 60 days, 2½ per cent. off 10, f. o. b. Bristol, Pa.

D. Landreth Seed Company BRISTOL, PA.

Bloomsdale Seed Farms, Established 1784.

Cyclamen Seed

A SPECIALTY

FINEST QUALITY ONLY

Mixed Colors or Separate Varieties

KELWAY & SON

Growers of All Choice Seeds

LANGFORD - - - - - ENGLAND

"Seeds with a Lineage" All Varieties
Thoroughly tested at our trial grounds, Raynes
Park, London, England. Send for Catalogue

CARTERS TESTED SEEDS, Inc., 166 Chamber of
Commerce Bldg., Boston, Mass.

Dwarf Gladiolus

	Per 1000
Cardinalis Blushing Bride.....	\$5.00
" Peach Blossom.....	6.00
" Crimson Queen.....	4.50
" Queen Wilhelmina.....	5.00
" Mixed.....	3.00
Colvillei Rubra.....	4.00
" Alba "The Bride".....	5.00
" Rosea.....	4.50
Ramosus Ne Plus Ultra.....	6.00

Lily of the Valley Pips

(New Crop)

BERLIN OR HAMBURG

Cases of 1000 Pips.....\$17.00 each
 " 500 "..... 9.00 "

Lilium Longiflorum Giganteum

(Black Stem)

7 to 9 in.....\$30.00 per 1000
 All 8 in. selected..... 35.00 "

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53 Barclay Street
 NEW YORK CITY

KELWAY & SON

SPECIALIZE IN

SEEDS

(personally selected strains)

WHOLESALE ONLY

Write for Special Prices, Spot or
 Forward

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Burpee's Seeds

PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
 MAILED ONLY TO THOSE WHO PLANT
 FOR PROFIT.

J. BOLGIANO & SON

WHOLESALE FIELD AND GARDEN SEEDS

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KEYSTONE SNAPDRAGON

Best Winter Flowering Pink Snapdragons on
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My new Price List of
 WINTER-ORCHID-FLOWERING SWEET
 PEA SEED

Has been mailed. If you have not received
 a copy, send me postal. Part of new crop
 will be ready early in July.

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Sweet Pea Ranch Lompoc, Cal.



MICHELL'S Verbena Seed

Mammoth Fancy Strain

Cannot be excelled for its free flower-
 ing qualities, large size and purity of
 colors.

	Tr. pkt.	Oz.
Mammoth Fancy Blue.....	\$0.30	\$1.25
Mammoth Fancy Pink.....	.30	1.25
Mammoth Fancy Scarlet.....	.30	1.25
Mammoth Fancy Striped.....	.30	1.25
Mammoth Fancy White.....	.30	1.25
Mammoth Fancy Mixed.....	.30	1.00

Also all other Seasonable Seeds and
 supplies for the Florist. Send for
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SEEDS for the FLORIST

ASTERS QUEEN of the MARKET.

The best extra early variety, large, double flowers, on long
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 Peach Blossom, White.

Trade Packet, 20c., Oz., 75c.

Sweet Peas, Cyclamen, Primulas, Lily of the Valley, from
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FOR SALE BY

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LILIUM GIGANTEUM

NEW CROP NOW READY.

	Per 100	Per 1000
7 to 9 in. (300 bulbs to case)...	\$5.50	\$50.00
8 to 9 in. (250 bulbs to case)...	7.00	65.00
8 to 10 in. (225 bulbs to case)...	9.00	80.00
9 to 10 in. (200 bulbs to case)...	10.00	95.00

A. HENDERSON & CO.

211 N. State St., Chicago.

ROMAN J. IRWIN

108 West 28th St., NEW YORK

SPECIAL OFFER

LILIUM FORMOSUM

8/11, 225 to a case.....	\$80.00 per 1000
9/10, 200 to a case.....	85.00 per 1000
11/13, 100 to a case.....	15.00 per case
LILIUM FORMOSUM—Black Stem	
8/10, 200 to a case.....	\$80.00 per 1000
9/10, 180 to a case.....	90.00 per 1000
11/13, 100 to a case.....	16.00 per case

Write for Complete Stock Circular.
 SATISFACTION GUARANTEED.

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SEEDS, BULBS AND IMPLEMENTS
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Reselected Strains in Seeds.

Improved styles in Implements.

Catalogue upon application.

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Horticultural Sundries

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GARDEN SEED

BET, CARROT, PARSNIP, RADISH and
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 items of the short crop of this past season,
 as well as a full line of Garden Seeds, will
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Deliver orders from any part of the country to
New York City

Or OUT-GOING STEAMERS

Write or Telegraph

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Telephone 1553-1555 Columbus

Of Interest to Retail Florists

EASTER DATES.

Our Easter dates for the next four years as they appeared in our issue of last week got partially twisted. The following is given to us as correct:

1917	April 8
1918	March 31
1919	April 20
1920	April 4

DURING RECESS.

Chicago Florists' Bowling Score.

Notwithstanding the hard work of the holidays florists bowled as usual with the following scores, Dec. 21, 1916:

J. Huebner	233	161	153
Brooklaus	166	224	176
A. McKeown	180	175	211
A. Zech	151	191	209
P. Olsem	154	160	193

Dec. 26, 1916:

J. Huebner	170	176	135
F. Price	191	170	217
A. Zech	182	190	155
J. Einwich	171	169	165
P. Olsem	143	202	209

Visitors' Register

Washington—E. G. Hill, Richmond, Ind.

Cincinnati—Harry Eads, Bellefontaine, O.,

Boston—R. M. Ward, New York, N. Y.; F. R. Pierson, Tarrytown, N. Y.; A. E. Thatcher and Mrs. Thatcher, Bar Harbor, Me.

New York—Curtis Nye Smith, Boston; L. W. Wheeler, Gilroy, Cal.; J. H. Dayton, Painesville, Ohio; J. Pitkin, Newark, N. Y.; Norman Scrim, Ottawa, Ont.

Send Telegraph, Telephone or Mail orders for florist service in this vicinity to

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853 SO. OLIVE ST.
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Every Order sure to receive prompt and careful attention.

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761 Fifth Ave.

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High Grade Cut Blooms**

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At your service to deliver Flowers or Designs on Order by Telegraph or otherwise. Prompt Reliable Service.

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WASHINGTON, D. C.

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We Guarantee Satisfaction
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Prompt Auto Delivery
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Deliveries to Steamers and all Eastern Points

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Will take good care of your orders
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F. H. KRAMER
Auto delivery of Designs and Flowers to
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Stock and Work First Class

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and State of Ohio
Complete Stock. Regular discount to Trade.
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Flowers of Every Kind in Season

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ANDERSON service means fresh, sturdy
Stock and prompt deliveries in BUFFALO,
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For Retail Stores a Specialty
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Randall's Flower Shop
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Lane.

Albany, N. Y.—H. G. Eyres, 106 State
St.

Albany, N. Y.—The Rosery, 23 Steuben
St.

Albany, N. Y.—William C. Gloeckner, 97
State St.

Boston—Thos. F. Galvin, 1 Park St.

Boston—Penn the Florist, 124 Tremont
St.

Buffalo, N. Y.—S. A. Anderson, 440 Main
St.

Buffalo, N. Y.—Palmer's, 304 Main St.

Chicago—William J. Smyth, Michigan
Ave. and 31st St.

Cleveland, O.—J. M. Gasser Co., Euclid
Ave.

Cleveland, O.—Adam Graham & Sons,
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Cleveland, O.—Knoble Bros., 1836 W. 25th
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Cleveland, O.—The Smith & Feters Co.,
735 Euclid Ave.

Denver, Col.—Park Floral Co., 1643
Broadway.

Detroit, Mich.—J. Breitmeyer's Sons,
corner Broadway and Gratiot Ave.

Houston, Tex.—Kerr, The Florist.

Kansas City, Mo.—Samuel Murray, 1017
Grand Ave.

Los Angeles, Calif.—Howard & Smith,
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New London, Conn.—Reuter's.

New York—J. H. Small & Sons, 505 Madison
Ave., at 52d St.

New York—David Clarke's Sons, 2139-
2141 Broadway.

New York—Alex. McConnell, 611 5th Ave.

New York—Young & Nugent, 42 W. 28th.

New York—A. T. Bunyard, 413 Madison
Ave., at 48th St.

New York—Dards, N. E. corner 44th St.
and Madison Ave.

New York—Max Schling, 22 W. 59th St.

New York—G. E. M. Stumpp, 761 Fifth
Ave.

New York—Thos. F. Galvin, Fifth Ave.,
at 48th St.

Norwich, Conn.—Reuter's.

Omaha, Neb.—Hess & Swoboda, 1415
Farnum St.

Passaic, N. J.—Edward Seecery.

Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave., N.

St. Louis, Mo.—Fred C. Weber, 4326-28
Olive St.

St. Paul, Minn.—Holm & Olson, Inc.

Tarrytown-on-Hudson, N. Y.—F. R. Pier-
son Co.

Toronto, Can.—J. H. Dunlop, 8-10 West
Adelaide St.

Washington, D. C.—Gude Bros., 1214 F
St.

Washington, D. C.—F. H. Kramer, 915
F St., N. W.

Washington, D. C.—George H. Cooke,
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Worcester, Mass.—Randall's Flower Shop,
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Flowers or Design Work

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ON TELEGRAPHIC ORDER

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"THE HOME OF FLOWERS"

The largest cut flower store in America.
Orders for the TWIN CITIES and for all
Northwestern points given prompt at-
tention

HOLM & OLSON, Incorporated
ST. PAUL, MINN.



KERR ORDERS FOR TEXAS
HOUSTON, TEXAS
The Florist Member F. T. D. Association

THE IRON SAFE CLAUSE IN YOUR INSURANCE POLICY. DO YOU KNOW WHAT IT MEANS.

Inasmuch as every reader hereof, if he carries insurance on his stock and fixtures, is bound by what is known as the iron safe clause of the policy, the following letter and my discussion of it should be of universal interest:

On the 10th of October our store was totally destroyed by fire, oil heater explosion in the evening.

That same day we had sold to a man from Detroit. He had asked to see our books and invoice. Same were accidentally let out of safe in desk and burned up, we just getting out of upstairs with our lives. We had \$9,000 insurance in four companies; they refuse settlement because of iron safe clause.

The bank has totals of invoice, also a check record of all our business. In this way we can prove our loss was nearly twice our insurance. We have procured duplicates of our bills bought last year also.

Indiana.

As I said, practically every—in fact I suppose literally every—insurance policy on stock and fixtures contains the iron safe clause. It is one of a trio of three familiar clauses which now appear in all insurance policies. The first requires the insured to keep a complete set of books. The second requires him to take an inventory, at least once a year, and the third is the iron safe clause, which requires the keeping of the books, at night when the store is closed, in an iron safe. These three provisions are usually in some such form as this.

It is a part of the conditions of this policy that the insured shall keep a set of books showing a complete record of business transacted, including all purchases and sales, both for cash and credit and take an itemized inventory of stock on hand at least once every year; and it is further agreed that insured will keep such books and inventory securely locked in a fireproof safe at night and at all times when the store mentioned in this policy is not actually open for business. It is further agreed that in event of loss, insured will produce said books and inventory. Failure to comply with these conditions shall render this policy null and void and no suit or action at law shall be maintained thereunder for any loss.

The importance of the above correspondent's question can now be seen.

The iron safe provision has been upheld in almost every State, and there is now no question as to its validity. I have reason to believe that thousands of merchants—not always the smallest ones, either—ignore this provision entirely. If they do, and fire results, and by reason of the fire they cannot produce their books and inventory, or any good substitute for them, they will lose their insurance without a doubt. The policy is only void, however, when failure to keep the books in the iron safe results in inability to produce the books after a fire. If the books and inventory are rescued, the policy stands, even though they were not kept in the safe. The

theory of this clause is perfectly sound. It is that the books and the inventory are the best evidence of what goods were on hand at the time of the fire. And a merchant who carelessly sacrifices that evidence will not be permitted to guess at what he had on hand.

The iron safe clause is in force only when the store is closed for business. As long as it is open, no matter what hour it is, the books need not go in the safe.

I find from an examination of the cases that there is a tendency on the parts of the courts to prevent insurance companies from being too technical about the iron safe clause. In other words, from laying any traps for their customers. The courts realize the need of the very best possible evidence of what properly has been destroyed by a fire. And they will not shield the business man who carelessly loses that—where the loss is vital. But there is quite a number of cases which hold that where the failure to keep the books in a safe did not prejudice the insurance company, in other words, did not make it liable to have to pay too much damage, the policy will be allowed to stand. For instance, in one case, a merchant had kept regular books and taken inventory as he was required to do, but a fire struck him one night when some of his books were out of the safe, and the latter were destroyed. The insurance company pleaded the iron safe clause and refused to pay, although everything bearing on the fire which the burnt books had contained could be supplied from other records. The court refused to invalidate the policy for such a season, ruling that the loss of the books was not vital since there were duplicate records of all they contained.

Another case bore considerable similarity to the correspondent's. A store which was covered by a policy containing the iron safe clause was closed one night, but the proprietor stayed behind to take an inventory. The books were accidentally left out and destroyed by a fire which occurred while the proprietor was actually working there, and the insurance company refused to pay. Here, too, the merchant could furnish from other records all that the destroyed books would have shown.

The court said it must pay, because the destruction of the books did not deprive the company of any information about the goods on hand at the fire; all this was forthcoming from duplicate invoices.

As I understand the correspondent's case, the store was closed for business, and some of the books were out of the safe, and were destroyed by the fire. The occupants of the floor above barely escaped with their lives. If the goods on hand at the time of the fire can be shown by other records, and if all the information which the books would have given can be supplied in some other way, I believe that the court will probably rule that the object of the iron safe clause, i. e., the supplying of complete information regarding goods on hand, has been fulfilled, and the policy will not be invalidated. But I apprehend that it will be a close call.

(Copyright, December, 1916, by Elton J. Buckley.)

RETAIL TRADE IN NEW YORK.

Max Schling of New York writes that when his Christmas business stopped as a Christmas rush, it began to be a New Year's rush, and there was no intermission between the two holidays. He says "We have at present in New York, a scarcity of the early bulb stock, and to a certain extent, a scarcity of some other stock, but this scarcity is not based on an insufficient production, it is only based on a splendid business, it is based on the immense increase of buyers in New York; the exceedingly large number of travelers stopping in New York, possibly most of whom generally traveled in Europe.

"The imaginative scarceness of azaleas or any other plants is not existing. If you should consult the different growers, and they should tell you the truth, then they will tell you that they grew more stock than the previous year, and sold all the stock out. If stock had been scarce they would not have done as they did, a much bigger business than any other year. Certainly it is in the interest of the seller—in this instance the grower—to tell the buyer—that means the florist—'stock is scarce, hurry up and place your order.' The most florists, even the timid ones, were taken by that suggestion and were prepared that they might not get all they ordered and so ordered more than they intended. I hope that each one was lucky enough to dispose of all he ordered, because I am pretty sure that each one did get what he ordered and possibly more.

"It might be of interest in general to the trade, that I base my buying for holidays on the sales of the three months previous to the holidays—in this instance, September, October and November, and the increase in business of these three months against the three months of the previous year, gives me the rate at which I have to increase my buying for the holidays.

A proof that stock was not scarce is following: I worked up a very good New Year's business just the same as I have always had a splendid Christmas, but this year I was prepared to change plant orders for New Years possibly into flower orders in case I should run short on stock, and I also prepared for selling palms, ferns, anthuriums, philodendrons, specimen marantas, and other good-keeping house plants, but the day after Christmas I had call after call from growers and I secured \$1,400 worth of flowering plants, and was not forced to talk my customers into something else than they were used to, and the business was so good that I even sold all my palms and other stock which I had secured as a precaution in case flowering stock should be scarce.

"Of scarcity, we did not feel anything, and I hope it will always keep up at the same rate; that my brother florists will believe in the scarcity and, in consequence, buy liberally and sell out always, as it seems they did everywhere this Christmas."

Telephone 2860 Madison Square

WOODROW & MARKETOS

WHOLESALE

Plantmen and Florists

37 and 39 West 28th St., NEW YORK

HAPPY NEW YEAR

We extend to all who read **Horticulture** our best wishes for happiness and prosperity. Don't forget that when you stock up on Bayersdorfer & Co.'s goods you are getting

THE BEST IN THE WORLD

BASKETS For Plants BASKETS For Flowers BASKETS

In Endless Variety, Home Manufacture and Imported. Everything in Florists' Requisites.

Stock up now and have the goods to show customers. Send for prices and see how much you can do with a little money when you go straight to headquarters—**THE FLORISTS' SUPPLY HOUSE OF AMERICA.**

H. BAYERSDORFER & CO.

Manufacturers and Importers

1129 Arch Street, PHILADELPHIA, PA.

Write for Catalogue

NEWS ITEMS FROM EVERYWHERE

CHICAGO

Three of the smaller greenhouses and a part of the conservatory in Oakwoods Cemetery in the south side of Chicago were destroyed by fire the night of December 30. Loss is estimated at \$10,000.

News of the death of Nicholas J. Rupp, treasurer of the John C. Moninger Co., was heard with regret in the market on Friday and was followed the next day by word that their large five-story factory was burning. It would seem that this firm was having a sad closing to the old year.

The chief topic of conversation and principal cause for anxiety among the growers continues to be the coal situation. No matter what amount of coal has been contracted for, the clause covering transportation of same places the business of the greenhouse men at the mercy of the railroad companies and many times every dollar the growers have invested in perishable stock is jeopardized by the coal shortage.

The custom of sending flowers to the offices of city officials, at the time of their installation, is one that is growing in favor and the prominence of such events in the newspapers is a good advertisement for the local florists. A large space was given on December 30 to the picture of a member of the board of review, sitting among a collection of flowers which included great bunches of American Beauties and some handsome designs, one of the largest of which was a ladder, the rounds being lettered from the bottom up, "business man" "lawyer," "board of reviews" and at the top "success."

WASHINGTON, D. C.

In addition to having been named as a member of the general Inaugural Committee J. Henry Small, Jr., has been appointed a member of the Court of Honor Committee. The Court will occupy the space between 15th and 17th streets, and will be decorated with enormous quantities of spruce trees, roping, and pot plants in full bloom, the latter depending upon weather conditions.

That business was exceptionally good was evidenced by the fact that Fred H. Kramer posted in his stores placards stating "No C. O. D. Orders Sent Out During the Holidays." Mr. Kramer also turned down telephone orders at the main store the two days preceding Christmas. Nor would he take orders for anything not in sight with the great difficulty in getting certain of the flowers, such as American Beauty roses and other reds. He instructed his sales people to sell only that which was in the icebox or on the floor, or known to be on the way from the greenhouses.

PHILADELPHIA.

Jno. McIntyre a well known figure in floral circles in Philadelphia was buried on January 2nd.

The Engley & Mullen Co., Market street near Thirteenth, bird specialists, have discontinued their seed department.

Mrs. Huebner wife of Paul Huebner, landscape gardener for the Reading R. R. system, was reported seriously ill with double pneumonia on the 3rd inst.

BOSTON.

C. Cuneo has opened a new flower store at 723 Washington street.

On account of the numerous municipal inaugurations which have been staged during the past week many suburban florists have been very busy.

Cornelius Boothman made his initial bow to the political world last Tuesday when he took his seat in the State House as the representative from the third Berkshire District. He is the son of A. J. Boothman, florist of North Adams.

The Horticultural Club of Boston at its regular monthly banquet on the evening of January 3, extended parting good wishes to its secretary, E. H. Wilson, who starts on Saturday, Jan. 6, on a long trip to Japan and Korea in the interests of the Arnold Arboretum. It was an unusual gathering of men of distinction in the horticultural world and a most memorable event for all who were privileged to participate.

PERSONAL.

W. A. Manda of South Orange, N. J., is taking the bath treatment for a few weeks at Mount Clemens, Mich.

Samuel Murray of Kansas City and his inseparable friend Arnold Ringier of Chicago are resting up after the strenuous holiday season at Excelsior Springs, Mo.

Harry A. Barnard, well-known in this country as traveling representative of Stuart Low & Co., England, writes that after a quick but very rough passage he arrived safely home after his recent visit to America but unfortunately ran into a hotbed of influenza and, as a result, was laid up for three weeks, but is now on the road to recovery and able to get outdoors when weather is fit.

CYPRIPEDIUMS

\$15.00 per 100

Gardenias—Bouvardia—Beauties

Each item you find with us in quantity. We
Specialize in Specialties.

THE LEO NIESSEN CO.

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EDWARD J. WELCH

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Wholesale & Commission Florists

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BOSTON, MASS.

Tel. Fort Hill 1964-1965

EDWARD REID WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.
CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

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We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.
10,000...\$1.85. 50,000...\$8.00. Sample free.
For sale by dealers.

E. G. HILL CO.

Wholesale Florists
RICHMOND, IND.

Please mention Horticulture when writing.

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EXCHANGE, Inc.**
WHOLESALE COMMISSION FLORISTS
Consignments Solicited
Hardy Fancy Fern Our Specialty
264 RANDOLPH ST., DETROIT, MICH.

The House for Quality and Service

ZECH & MANN

We are Wholesale Florists Doing
a Strictly Wholesale Business

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POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut Flower Market

Daily consignments from leading growers Full line of Florists' Supplies Write for quotations before ordering elsewhere

262 B DEVONSHIRE ST., BOSTON, MASS.
Telephone, Main 6267-6268

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON Jan. 4		ST. LOUIS Jan. 1		PHILA. Jan. 1	
Roses						
Am. Beauty, Special..	40.00	to 60.00	.....	to 60.00	40.00	to 50.00
" " Fancy and Extra..	15.00	to 30.00	30.00	to 40.00	20.00	to 35.00
" " No. 1 and culls.....	4.00	to 10.00	4.00	to 6.00	5.00	to 12.50
Russell, Euler, Mock.....	4.00	to 20.00	6.00	to 12.00	5.00	to 30.00
Hadley.....	6.00	to 20.00	5.00	to 12.00	5.00	to 15.00
Arenberg, Hoosier Beauty.....	4.00	to 10.00	.....	to	4.00	to 12.50
Ward.....	8.00	to 15.00	4.00	to 12.00	3.00	to 10.00
Killarney, Radiance, Taft.....	4.00	to 12.00	6.00	to 12.00	3.00	to 12.00
Ophelia, Sunburst, Hillingdon.....	8.00	to 15.00	2.00	to 10.00	4.00	to 12.00
Kay.....	4.00	to 15.00	.....	to	8.00	to 25.00
Carnations	3.00	to 5.00	1.50	to 3.00	2.00	to 6.00
Cattleyas	35.00	to 75.00	.....	to 50.00	35.00	to 75.00
Dendrobium formosum.....	.....	to 50.00	.....	to	50.00	to 60.00
Lilies, Longiflorum.....	8.00	to 12.00	10.00	to 12.00	10.00	to 12.00
Lilies, Speciosum.....	.....	to .....	.....	to .....	.....	to
Callas	.....	to	10.00	to 15.00	12.50	to 15.00
Lily of the Valley.....	4.00	to 6.00	.....	to 6.00	3.00	to 6.00
Snapdragon.....	2.00	to 10.00	.....	to	3.00	to 10.00
Narcissus, Paper White.....	2.00	to 3.00	2.00	to 3.00	2.00	to 3.00
Roman Hyacinths.....	3.00	to 4.00	.....	to .....	.....	to
Freesia.....	.....	to .....	.....	to	3.00	to 5.00
Tulips.....	.....	to .....	.....	to .....	.....	to
Calendulas	2.00	to 3.00	.....	to	3.00	to 5.00
Sweet Peas.....	1.00	to 1.50	.50	to 1.50	.50	to 3.00
Violets.....	.75	to 1.00	.....	to 1.00	.25	to 1.00
Marguerites.....	.50	to 2.00	.....	to	1.00	to 3.00
Gardenias	20.00	to 30.00	.....	to	25.00	to 40.00
Adiantum.....	.....	to 1.00	.....	to 1.00	1.00	to 1.50
Smilax.....	12.00	to 20.00	.....	to 15.00	15.00	to 20.00
Asparagus Plumosus, & Spreng. (100 Bchs.).....	25.00	to 35.00	35.00	to 75.00	25.00	to 50.00

WILLIAM F. KASTING Co.

Wholesale Florists

568-570 WASHINGTON STREET - BUFFALO, N. Y.

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER of

CUT FLOWERS

In writing to Advertisers kindly mention Horticulture



DAFFODILS

A touch of Spring, the early French varieties of Daffodils. Very well grown stock.

Price, \$6.00 and \$8.00 per 100

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NEW YORK PHILADELPHIA BALTIMORE WASHINGTON
117 W. 28th St. 1608-1620 Ludlow St. Franklin & St. Paul Sts. 1216 H St., N. W.

Flower Market Report

The customary post-holiday calm has thus far failed to materialize, and business is going along well. New Year trade was above par, both in respect to volume and prices obtained. Short lengths in all varieties of roses are almost non-existent. White roses and carnations are moving slightly better than last week and pink is a trifle more quiet. Hadley, Ophelia and Killarney are the head liners for the week. Benora and Matchless are the star performers in the carnation line. Special and extra Beauties command goodly prices. Lily of the valley fluctuates. Violets are being shipped heavily, as are paper white and yellow narcissi. Lilies were especially active the earlier part of the week but brightened up considerably later on. A few wall-flowers are to be seen but are extremely dull. The general tone indicates a healthy steady demand for the staples without fear of any serious decrease for the near future.

The Christmas business **BUFFALO** was good though it could have been better and would have been had it not been for the severest snow storm that this city and locality has seen in many a day, and this unfortunately came upon us Friday. The city was completely tied up, shipments of flowers from Eastern sections being two days in transit and even stock shipped from 25 miles distance could not be located for three days. The deliveries of both wholesaler and retailer on Friday and Saturday were handicapped by the severe snow, and plants and flowers were frozen and had to be replaced. Accidents to automobiles were common. The express companies would not accept shipments going out and there was much inconvenience to the out of town merchants. Blossoming plants, especially poinsettias in single

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI Jan. 1		CHICAGO Jan. 2		BUFFALO Dec. 27		PITTSBURG Dec. 27	
Roses								
Am. Beauty, Special.....	50.00	to 60.00	50.00	to 60.00	30.00	to 60.00	50.00	to 60.00
" " Fancy and Extra.....	30.00	to 40.00	40.00	to 50.00	15.00	to 25.00	30.00	to 40.00
" " No. 1 and culls.....	10.00	to 25.00	15.00	to 25.00	8.00	to 12.00	15.00	to 25.00
Russell, Euler, Mock.....	.....	to	5.00	to 30.00	4.00	to 20.00	8.00	to 20.00
Hadley.....	.....	to	8.00	to 20.00	8.00	to 20.00	8.00	to 20.00
Arenberg, Hoosier Beauty.....	8.00	to 18.00	4.00	to 12.00	3.00	to 10.00	4.00	to 10.00
Ward.....	6.00	to 12.00	.....	to	8.00	to 15.00	.....	to
Killarney, Radiance, Taft.....	4.00	to 12.00	.....	to	3.00	to 12.00	.....	to
Ophelia, Sunburst, Hillingdon.....	6.00	to 15.00	8.00	to 12.00	8.00	to 10.00	8.00	to 15.00
Kay.....	.....	to	8.00	to 15.00	4.00	to 8.00	.....	to 20.00
Carnations	3.00	to 4.00	2.00	to 3.00	3.00	to 5.00	3.00	to 5.00
Cattleyas.....	75.00	to 100.00	60.00	to 75.00	50.00	to 75.00	40.00	to 70.00
Dendrobium formosum.....	.....	to	40.00	to 50.00	.....	to .....	.....	to
Lilies, Longiflorum.....	12.50	to 15.00	10.00	to 12.00	10.00	to 12.00	10.00	to 12.00
Lilies, Speciosum.....	8.00	to 12.50	.....	to	4.00	to 6.00	.....	to
Callas.....	10.00	to 12.50	.....	to .....	.....	to .....	.....	to 8.00
Lily of the Valley.....	.....	to 7.00	5.00	to 6.00	5.00	to 7.00	4.00	to 6.00
Snopdragon.....	4.00	to 8.00	8.00	to 12.00	4.00	to 6.00	3.00	to 6.00
Daffodils.....	.....	to	3.00	to 4.00	4.00	to 6.00	3.00	to 5.00
Narcissi Paper White.....	3.00	to 4.00	3.00	to 5.00	4.00	to 5.00	.....	to
Roman Hyacinths.....	3.00	to 4.00	.....	to	3.00	to 4.00	.....	to
Freesia.....	3.00	to 4.00	.....	to .....	.....	to .....	.....	to
Tulips.....	.....	to .....	.....	to .....	.....	to .....	.....	to
Calendulas.....	3.00	to 4.00	.....	to .....	.....	to .....	.....	to
Sweet Peas.....	1.00	to 2.00	.....	to	1.50	to 2.00	.....	to
Violets.....	1.00	to 1.50	.75	to 1.00	.75	to 1.00	.75	to 1.25
Marguerites.....	1.00	to 1.50	.....	to	1.00	to 1.50	.....	to 1.00
Gardenias.....	.....	to	25.00	to 35.00	25.00	to 30.00	.....	to
Adiantum.....	.....	to 1.00	.....	to 1.00	1.00	to 1.25	.75	to 1.25
Smilax.....	.....	to 15.00	10.00	to 20.00	15.00	to 20.00	.....	to 20.00
Asparagus Plu. & Spren. (100 Bhs.)	25.00	to 50.00	25.00	to 50.00	35.00	to 50.00	40.00	to 50.00

blooms and pans, were scarce, also very few azaleas were had, and cyclamen were much in bud. There was the usual amount of Boston ferns, araucarias, primulas and others which shared in the demand. The disappointing part of the Christmas business was the sale of Beauties; orders could not be filled for mediums and shorts; only specials were had and the market could not dispose of many at the high quotations. In many cases Ophelia, Killarney, Milady and Hoosier Beauty filled the order and consequently Beauties remained in the coolers. The supply of roses in general was good, quality fine and sales satisfactory. Sales in lily of the valley were five per cent less than previous years, and violets arrived too late for a cleanup. Carnations were in rather short supply and prices ruled high though there were enough to fill the wants. There were plenty of narcissus, stevia, smilax, Adiantum Farleyense and other greens. The sale of laurel, pine, holly and all artificial material was five per cent greater than a year ago.

Christmas sales left the **CHICAGO** market pretty well cleaned up, so far as good stock was concerned and daily shipments during the week following have found ready sale. Local social events have called for a fair share of the best the market produced and added to this was a splendid shipping trade which assured good prices for all the growers could cut between Christmas and New Year's. As the books have been footed up the sales for Christmas have amounted to even more than at first estimated, and the record will be one to look back upon with pleasure. Carnations are back to normal price again, the fancy prices having taken the inevitable slide and it was here that wholesalers had the most difficulty with "pickled" stock. There is a good supply of roses which includes practically all the new and standard varieties and quality is fine. American Beauties are equal to de-

(Continued on page 25)

H. E. FROMENT

Wholesale Commission Florist
Choice Cut Flowers

New Address, 145 West 28th St., NEW YORK
Telephones: 2200, 2201, Madison Square.

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Wholesale Commission Florists

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Telephone 5335, Farragut.
Call and inspect the Best Establishment
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WHOLESALE FLORIST

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CONSIGNMENTS SOLICITED

PHONE { 608 } FARRAGUT NEW YORK
{ 609 }

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THE KERVAN COMPANY

Ferns, Mosses, Wild Smilax, Galax,
Leucothoe, Palmetto, Cycas, both fresh
cut and prepared.

Laurel, Hemlock, all Decorative Evergreens.
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Brooklyn's Foremost and Best

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A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

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121 West 28th St., NEW YORK

FINE ROSES, FANCY CARNATIONS

A Full Line of ALL CUT FLOWERS.
Telephone 3870 Farragut.

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RIEDEL & MEYER, Inc.

Wholesale Commission

READY FOR BUSINESS

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WHOLESALE COMMISSION FLORIST SELLING AGENT FOR
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A full line of Choice Cut Flower Stock for all purposes.

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WHOLESALE ONLY

SAVE TIME AND MONEY BY SENDING YOUR ORDERS TO US
Prices Right. Consignments Solicited. Telephone Connection

Centrally Located, The Hub of the Flower Market Section

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HEADQUARTERS for the entire output of the

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Telephones { 1664 } Madison Square
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CONSIGNMENTS SOLICITED

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Dec. 30 1916		First Half of Week beginning Jan. 1 1917	
American Beauty, Special	40.00	to 60.00	40.00	to 60.00
" " Fancy and Extra	20.00	to 30.00	20.00	to 30.00
" " No. 1 and culls.	4.00	to 15.00	4.00	to 15.00
Russell, Euler, Mock	5.00	to 20.00	4.00	to 15.00
Hadley	10.00	to 35.00	6.00	to 25.00
Arenberg, Hoosier Beauty	4.00	to 15.00	4.00	to 15.00
Ward	5.00	to 12.00	4.00	to 12.00
Killarney, Radiance, Taft	5.00	to 10.00	4.00	to 10.00
Ophelia, Sunburst, Hillingdon	6.00	to 15.00	6.00	to 15.00
Kay	5.00	to 12.00	4.00	to 12.00
Carnations	3.00	to 6.00	2.00	to 4.00

WALTER F. SHERIDAN

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CHOICE CUT FLOWERS

133 West 28th Street, New York

Telephone—3532-3533 Madison Square

WE ARE WHOLESALE FLORISTS

We handle every variety of cut flowers.
We have 22 years' experience behind us,
and we do not expect a gold medal for do-
ing our full duty by our consignors and
customers. You cannot go very far wrong
when dealing with us.

GUTTMAN & RAYNOR, Inc.

101 West 28th Street, NEW YORK
Phones 2036, 2037, 558 Farragut

Frank H. Traendly Charles Schenck

TRAENDLY & SCHENCK

Wholesale Florists

436 6th Avenue, Between 26th and 27th Sts., New York

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Consignments Solicited

WALTER R. SIEBRECHT CO.

Incorporated

Wholesale Commission Florists

Orchids, Gardenias and Many Unusual
Flowers of Quality

114 West 28th Street
NEW YORK

HENRY M. ROBINSON CO. OF NEW YORK

WHOLESALE FLORISTS

55-57 West 26th Street

Telephones, 13—8510 Madison Square

Consignments Solicited

MAURICE L. GLASS, Treasurer

Flower Market Reports

(Continued from page 23)

mand. A few late pompon chrysanthemums are left. Orchids, violets, gardenias and other flowers give variety for the buyers to select from.

Throughout the CINCINNATI Christmas holidays business was good.

Receipts were heavy and would satisfy all wants. The demand from out of town for stock is heavy. Excellent roses may be had in fair quantities. The supply, if anything, is somewhat heavier than before the holidays. Carnations are also in a good supply. Some poinsettias are still coming in but the chances are that the cut will not last many days longer. Roman hyacinths and freesia are in the market and with narcissus constitute the list of small bulbous offerings. Sweet peas have shown considerable improvement. Lily of the valley is plentiful.

New York's second

NEW YORK big holiday was in many respects a repetition of that a week previous. Prices

on most things were somewhat lower and on red roses, red carnations, etc., they were practically cut 50 per cent for fresh material, while for the surplus held over from Christmas "job lot" figures were the only alternative. Contrary to previous expectations, lily of the valley was a very draggy commodity. Lilies, paper white narcissi and white material generally moved slow and in truth everything dragged along very discouragingly until Sunday night when the demand freshened up and on New Year's day a fine trade was done. But the retail stores, particularly those of the better class, bought only "from hand to mouth" the Greek stores being the only ones apparently willing to take any risks in stocking up. Quite a few chrysanthemums are still in evidence. Buddleia asiatica, orange and yellow polyanthus narcissi, tulips, anemones, white lilacs, double flowering peach bloom, camellias, ericas of several species are all more or less in evidence in either plant or cut flower state. In fact, there is very little missing at this date which one is accustomed to see at Easter.

The story of New

PHILADELPHIA Year week is almost a repetition

of that for Christmas week except that prices did not rule quite so high. The volume of business was very large and everything cleaned up well with the exception of perhaps White Killarney roses. Paper white narcissi and stevia went better and the glut on these seems now about over.

The week following

ST. LOUIS Christmas saw a drop in the price of flowers.

Carnations especially fell down. Roses, with the exception of pink and white Killarney, sold well. Reports from various sources show that in many instances the sale in cut flowers were not as good as last year. Many ob-

(Continued on page 30)

PATRICK WELCH, WHOLESALE FLORIST

262 DEVONSHIRE STREET, BOSTON, MASS.

TELEPHONE MAIN 2698

American Beauties, Orchids, Valley, Carnations. All the novelties in the Cut Flower Market furnished on short notice. Prices quoted on application. No retail orders accepted. Flowers shipped out of Boston on early trains.

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Can handle shipments of growers' product satisfactorily. Would like to hear from Growers of Snapdragons and Sweet Peas, etc., for the New York trade.

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Tel. Farragut 3066

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MISCELLANEOUS	Last Half of Week ending Dec. 30 1916		First Half of Week beginning Jan. 1 1917	
Cattleyas	25.00	to 100.00	30.00	to 100.00
Dendrobium formosum	.....	to 50.00	.....	to 50.00
Lilies, Longiflorum	8.00	to 10.00	8.00	to 10.00
Lilies, Speciosum	4.00	to 8.00	4.00	to 8.00
Callas	.....	to .....	.....	to
Lily of the Valley	3.00	to 4.00	3.00	to 4.00
Snapdragons	4.00	to 12.00	4.00	to 12.00
Daffodils	.....	to 4.00	.....	to 4.00
Narcissi, Paper White	2.00	to 3.00	2.00	to 3.00
Roman Hyacinths	2.00	to 4.00	2.00	to 4.00
Freesia	.....	to .....	.....	to
Tulips	2.00	to 4.00	2.00	to 4.00
Calendula	3.00	to 5.00	3.00	to 5.00
Sweet Peas	1.50	to 2.00	1.50	to 2.00
Violets	.75	to 1.25	.50	to 1.00
Marguerites	1.00	to 1.50	1.00	to 1.50
Gardenias	8.00	to 16.00	8.00	to 16.00
Adiantum	.75	to 1.00	.75	to 1.00
Smilax	12.00	to 16.00	12.00	to 16.00
Asparagus Plumosus, & Spreng (100 bunches)	20.00	to 35.00	20.00	to 35.00

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We Solicit Consignments of New
England Grown Novelties.

Beechwood Heights Nurseries

Importers and Growers of

ORCHIDS

Cut Flowers of All the Leading Varieties
in their Season.

THOMAS YOUNG, Jr., Proprietor
BOUND BROOK, N. J.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display Advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

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APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
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ASPARAGUS

Asparagus Plumosus Seedlings, \$1.00 per 100, \$5.00 per 1000. Ready May 1st. COL-LINGDALE GREENHOUSES, Collingdale, Pa.

AZALEAS

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BAY TREES

BAY TREES. Write for wholesale price list.
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BEGONIAS.

Mrs. J. A. Peterson (New), 2 1/4 in. pots, \$25.00 per 100; \$200.00 per 1000.
JULIUS ROEHRS CO., Rutherford, N. J.

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Hitchings & Co., New York City.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
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Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOX TREES

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BOX TREES—Standards, Pyramids and Bush. Price list on demand.
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C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK BRANCH, 8-10 Bridge St.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
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Albert Roper Estate, Tewksbury, Mass.
New Carnation Albert Roper.

CARNATION STAPLES

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 1000 for 35c.; 3000 for \$1.00 post-paid. I. L. PILLSBURY, Galesburg, Ill.

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Chrysanthemum—Alex Guttman.
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DAHLIAS

Peony Dahlia Mrs. Frederick Grinnell.
Stock For Sale.
JOHN P. ROONEY, New Bedford, Mass.

ORDERS BOOKED ANY TIME

For Fall or Spring delivery. Wholesale and Retail. Send for Catalogue. NORTHBORO DAHLIA & GLADIOLUS GARDENS, J. L. Moore, Prop., Northboro, Mass.

NEW PAEONY DAHLIA

John Wanamaker, Newest, Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to PEACOCK DAHLIA FARMS, Berlin, N. J.

DECORATIVE PLANTS

Julius Roehrs Co., Rutherford, N. J.
Choice Flowering and Foliage Plants.
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High Grade Plants for Retail Florists.
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A. M. Davenport, Watertown, Mass.
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For Plants and Cuttings get our prices before ordering elsewhere. Our guarantee with every order. Write for a copy of our latest Plant Bulletin.

Asparagus	Cyclamen	Primula
Begonias	Daisies	Smilax
Bulbs	Dracaena	Snapdragons
Calceolaria	Ferns	Violets
Calendula	Geraniums	
Cineraria	Hydrangeas	

S. S. PENNOCK-MEEHAN COMPANY,
Philadelphia, 1608-1612 Ludlow St.
Baltimore, Franklin and St. Paul St.
Washington, D. C., 1216 H St., N. W.
New York, 117 W. 28th St.

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Geraniums, S. A. Nutt, 2 in., \$2.00 per hundred, \$18.00 per thousand; rooted cuttings, \$12.00 per thousand. Cash. Also few white cuttings and 2 in. W. E. ALLEN, Leominster, Mass.

GLADIOLI

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Greenhouse glass, lowest prices. JOHN-STON GLASS CO., Hartford City, Ind.

GLASS—6 x 8, 8 x 10, 10 x 12, 10 x 14, \$1.90 per box. Other sizes at factory prices. C. N. ROBINSON & BRO., Dept. 29, Baltimore, Md.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
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GOLD FISH

Gold fish, aquarium plants, snails, castles, globes, aquarium, fish goods, nets, etc., wholesale. FRANKLIN BARRETT, Breeder, 4815 D St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

GREENHOUSE BUILDING MATERIAL

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NIKOTIANA

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NURSERY STOCK

A. Koloos & Co., Gouda, Holland; also
L. Vanbeerde, care Maltus & Ware,
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ORCHID FLOWERS

Jas. McManus, New York, N. Y.

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ORCHID PLANTS

Beechwood Heights Nurseries,
Bound Brook, N. J.
Importers and Growers of Orchids.
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PEONIES

Peonies. The world's greatest collection.
1200 sorts. Send for list. C. BETSCHER,
Canal Dover, O.

PECKY CYPRESS BENCHES

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Rose Prima Donna (Mme. Paul Euler).

ROSES, CANNAS AND SHRUBS.
THE CONARD & JONES COMPANY,
WEST GROVE, PA.

A. Koloos & Co., Gouda, Holland; also
L. Vanheerde, care Maltus & Ware,
14 Stone St., New York City.
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SASH

STANDARD HOTBED SASH, with cross
bar, 85c. each; lots of 25 and over, 80c.
each. Satisfaction guaranteed or money
refunded. Glass 6 x 8, 8 x 10, 10 x 12 or
10 x 14, \$1.90 per box of 50 sq. ft.
C. N. ROBINSON & BRO., Dept. 29, Balti-
more, Md.

SCARLET SAGE SEED

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SEEDS

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SNAPDRAGON

Snapdragon from Ramsburg's Seed.
Nelrose 2½ in. \$4.00 per 100
Phelps White 3 in. 6.00 per 100
Silver Pink 3 in. 6.00 per 100
DAVID F. DOANE, Deep River, Conn.

SPHAGNUM MOSS

New England Florist Supply Co., Boston,
Mass.

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. LAGER
& HURRELL, Summit, N. J.

SWEET PEA SEED

Ant. C. Zvolanek, Lompoc, Calif.
Gold Medal of Honor Winter Orchid Sweet
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VEGETABLE PLANTS

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Est. 1765

Pot Makers for a
Century and a Half

HEWS STRONG RED POROUS POTS

Inc. 1904

World's Largest
Manufacturers

Standard, Azalea, Bulb, Orchid, Fern, Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
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CAMBRIDGE, MASS.
NEW YORK, N. Y.

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The S. S. Pennock-Meehan Co., 1216 H St.,
N. W.
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DREER'S "Riverton Special" Plant Tub



No.	Diam.	Ea.	Doz.	100
10	20 in.	\$1.60	\$17.50	\$145.00
20	18 in.	1.45	15.50	130.00
30	16 in.	1.20	12.25	100.00
40	14 in.	.70	7.75	60.00
50	12 in.	.50	5.50	45.00
60	10 in.	.40	4.40	35.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest lightest and cheapest. Painted green, with electric weld ed hoops. The four largest sizes have drop handles.

HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.

STANDARD FLOWER POTS

If your greenhouses are within 500 miles of the Capitol, write us; we can save you money.

W. H. ERNEST

29th & M Sts., Washington, D. C.

The Florists Hall Association rate of insurance from Nov. 1st, 1916 to Nov. 1st, 1917 will be twenty cents per hundred square feet of single thick glass and eight cents per hundred square feet of double thick glass. For particulars address JOHN G. ESLER, Sec., Saddle River, N. J.

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CHOICE FLORISTS' SEEDS FOR EARLY SOWING

Arthur T. Boddington Co., Inc., New York
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VENTILATING APPARATUS AND GREENHOUSE FITTINGS.

Advance Co., Richmond, Ind.
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WANTS, FOR SALE, ETC.

FOR SALE

GREENHOUSE FOR SALE

Near White Sulphur and Hot
Springs, Va.Address W. G. DUDLEY
CLIFTON FORGE, VA.

FOR SALE—Greenhouse property or part interest in same. Two greenhouses, each 22 x 200 ft., in good condition, planted mostly to Carnations, Sweet Peas and Geraniums; 4 to 5 acres of land; good location. ALLEN & BLANCHARD, 185 Exchange St., Leominster, Mass. Tel. 107W.

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POSITION WANTED as assistant gardener, private estate, inside or outside. Can furnish good references. Single; abstinent. CHARLES SMITH, 41 Warren Ave., Boston, Mass.

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MISCELLANEOUS

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KROESCHELL BOILERS

SEND FOR CATALOG

Kroeschell Bros. Co., 466 W. Erie St., Chicago



Flower Market Reports

(Continued from page 25)

jected to the increased prices. The retailers will in the future realize that 100 per cent. profit cannot always be expected. The public want flowers at reasonable prices. What is needed is a more uniform price for flowers throughout the year. The express company refused all perishable freight on Dec. 24, owing to the freight blockade. Mistletoe arrived late and frozen and was a total loss.

The coming of
WASHINGTON Christmas on Monday, making it in

reality spread over a period of three days from a commercial standpoint, enabled the florists of Washington to do the largest business in the history of the trade here. The balmy weather was also a great aid at this time for it enabled the making of deliveries unhampered by cold and storm as has been the case in previous years. Everything sold up well. Roses brought high prices and there was no dickering in connection with the sales. Carnations moved in large quantities. Gardenias were in fair demand. Orchids were high. The sale of lily of the valley was held down by the high prices for the retailers found it impossible to get \$1.50 and \$2.00 per dozen sprays as was necessary in order to handle the goods at a profit. Poinsettias, begonias, cyclamen and narcissus in pots brought good prices and the demand was quite heavy.

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\$1.35 per Gallon in 10 Gallon lots
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Dreer's Peerless Glazing Points For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts. The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid. Samples free.

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No 2

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Double and single thick selected glass all sizes from 6x8 to 16x24. Ten boxes or more at wholesale prices.

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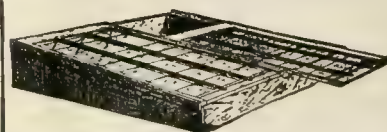
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For Greenhouse
Glazing
USE IT NOW

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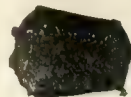


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Made of best grade Gulf cypress.

Glazed Hotbed Sash from \$1.65 up.
Double Light Sash up to \$4.00.

We carry a large stock of all sizes.
Write us for estimate

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1959-1985 Flushing Avenue BROOKLYN, N. Y.



NON-KINK WOVEN HOSE

In any length (one piece) with couplings, 15c. per foot. Unequalled at the price.



Hose Valve, 70c.

All brass except the hand wheel. Has a removable leather disk which is easily replaced to keep water tight. Stuffing box prevents leaks at stem.

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1392-1414 Metropolitan Ave., Brooklyn, N. Y.

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On account of their sturdy special construction which permits of great strength without the need of heavy shadow casting supports, these houses are so warm and sunny that they are filled with a riot of bloom and fruit when Jack Frost has stripped the garden of its beauty.

The ventilating and heating systems are the result of years of experience in building for professional growers. Things just have to grow in a King.

Write today for Bulletin No. 43. See how beautiful and how productive a greenhouse can be erected for the the price you want to pay.

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ALL DAY HOUSES



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ARE THE BEST FOR

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GREENHOUSES**

Estimate and Sketch Submitted Promptly

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PECKY CYPRESS BENCH STOCK

HOT BED SASH

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SHARP, PARTRIDGE & CO.

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OUR PRICES WILL PROVE THIS.

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Window and Plate Glass

86 1st Avenue, NEW YORK CITY

Double Thick 16/24 for the Florist

A SPECIALTY. WRITE ME FOR PRICES.

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STRUCTION ENDORSED
BY WORLD-FAMOUS
ARCHITECTS**



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The plans which contained all manner of modern improvements and scientific arrangements were drawn by the internationally famous architects Carrere & Hastings, who, after thoroughly examining practically every style of construction in their search for the maximum of efficiency, placed their plans and construction contracts with us.

Is it not fair to assume that what we are doing for them, we can do equally as well for you?

**WE KNOW WHAT TO DO
AND WHAT NOT TO DO**

What's more, we can save money for you

S. JACOBS & SONS

Greenhouse Builders

1359-1358 Flushing Avenue

BROOKLYN, N. Y.

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**GREENHOUSE MATERIAL
HOT-BED SASHES**

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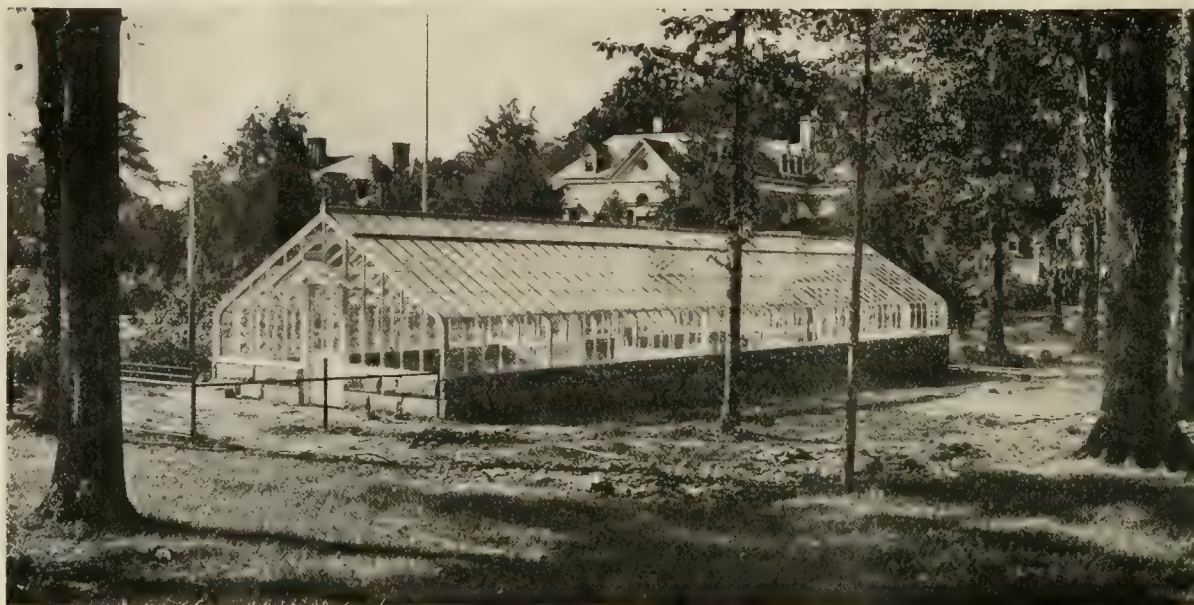
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PATENT LAWYERS

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Washington, D. C.



Alexander Winton's house at Cleveland, with one section partitioned off for the workroom

A Word or Two About Workrooms of Greenhouse Construction

SOME there are who seem to object to a workroom of separate construction. A few object to its additional cost.

While others prefer it because to their notion it looks better. To meet just such desires we construct them three different ways.

1. One or more sections partitioned off from the regular greenhouse, it being in every way constructed like the rest of the house. The roof is either of ground glass or left clear and painted.

2. Taking two sections and in place of the glass roof, use block tin painted with alumi-



Dunleavy Millbank's house at Port Chester, N. Y., had two sections roofed over with block tin, Aluminum painted. The effect is indeed pleasing.

num. The sides and end are then of clear glass. This is a splendid fix, quite the best of all many gardeners think.

3. Take two sections and shingle the roof and gable above the side glazing. This gives a marked distinction between the workroom and greenhouse which some feel is decidedly desirable.

As far as we are concerned; it's for you to say which you prefer.

In any case, it would be our construction of Everlasting Lastingness.

Ready to talk building? Say when and where and we'll be there.

Lord & Burnham Co.

Builders of Greenhouses and Conservatories

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St. Catharines, Canada.



The Robert Goellet house at Goshen has shingled roof and gable. Do you like it as well as the one above?

Vol. XXV
No. 2
JAN. 13
1917

HORTICULTURE



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Growing on Bayard Thayer Estate, Lancaster, Mass.

Published Every Saturday at 147 Summer Street, Boston, Mass.
Subscription, \$1.00

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Our Usual Celebrated Strain

15 varieties, 3 inch pots.
75c per doz.; \$6.00 per 100; the set of
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\$1.50 per 1000 seeds.

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Henry A. Dreer

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Philadelphia, Pa.

The above prices are intended for the trade only.



Dreer's Double Fringed Petunia.

CHRYSANTHEMUM ALEX. GUTTMAN

The best Early Lavender-Pink in the Market. Blooms have been selling for \$6.00 per dozen since middle of September. Stock Plants, 75c. each, \$7.50 per doz.

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Solicits orders for shipments of Orchids.
Prices quoted upon application.

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per 1000.

ROOSEVELTS—\$5 per 100, \$40 per 1000.

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250 at 1000 rates.

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Coleus, 10 varieties, including Golden Bedder and Verschaffeltii. Heliotrope, Ageratum, blue and white, 75c. per dozen, postpaid; \$5.00 per 1000, by express, not prepaid.

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CHAS. SCHWAKE & CO., Inc.

Valley

GERMAN, SWEDISH AND DUTCH PIPS

90-92 West Broadway, New York

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SEE PAGES 58, 59, 60, 61**

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Don't fail to read over these Ads. in each issue and you may find one or more that will prove profitable to you.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toll, we ought to blame the culture, not the soil."—Pope.

Asters for Inside Flowering

The best all-round aster for indoor culture is Queen of the Market, also called Queen of the Earlies. This is a vigorous grower and branches freely. Early Wonder blooms a trifle earlier but the flowers are smaller and not produced in anything like such profusion. Be sure to prepare the soil well. Any soil that will grow good carnations will produce good asters. When large enough they can be planted about a foot each way. While some varieties can stand a little over 50 degrees at night during the winter the nearer that degree is maintained the better in every way. Get away from the idea of ever forcing plants so as to obtain a heavier crop of flowers. Healthy stock, kept at 50 degrees at night, whenever possible, is bound to pay for itself whether or not you get a full crop of flowers. Keep well syringed on all good days so as to keep down red spider.

Miscellaneous Crops

Now is a good time to sow stocks; Giant Ten Weeks is a good strain. Candytuft makes another good Memorial Day crop. Annual lupines and larkspurs are not much seen in the market, but they make splendid and profitable spring crops. The fact that they are not commonly seen makes them sell all the better. Dimorphotheca aurantiaca and hybrids can be flowered earlier from seed than any other annuals. Calendulas are now a fairly profitable winter crop. For a spring crop, sow now in benches in rows twenty-four inches apart. Thin out the seedlings, making them ten inches apart in the rows. Cornflowers are another desirable spring crop. The double blue variety throws a good percentage of double flowers and should be used. Sweet peas can still be sown where they can have ample head-room. Use nothing but the Spencer varieties. All these crops will grow and do well in a house where the temperature runs at about 50 degrees at night.

Potting and Care of Cattleyas

All cattleyas such as *C. labiata*, *C. maxima*, *C. Bowringiana*, *C. Percivaliana*, etc., that are now in a dormant state can have fresh material. When potting give them a thorough cleaning of scale or other insects. Quite a few will need a shift into new compost or to have the worn-out material removed from around the roots. They do well in pans, baskets or pots, but I think hanging pans the best for they are not so liable to fungus as they are when grown in wooden baskets. Whatever they are grown in should be at least half full of clean and broken crocks. Use either good fibrous peat and sphagnum or fern root and sphagnum inter-

mixed with small pieces of charcoal. Place all newly potted cattleyas in shade and where they can be kept rather close until they take hold of the new material.

Left Over Stock

All such flowering plants as *Begonia Lorraine*, cyclamen and primroses should be given the minimum temperature with plenty of ventilation until sold, but if the stock is unsalable don't let it occupy valuable bench room. Azaleas should be placed in a very cool, light house. Anything above the freezing point will do. See that at no time they are allowed to get extremely dry. Save as many stevia plants as will be needed, cut down and place in a light cool house for future cuttings. Ericas will take the same treatment. Lift the poinsettias with as much of the soil adhering as possible and set closely packed in boxes, covering the intervening spaces with soil. These should be rested under a somewhat dry warm bench until March or later, when they can be potted up again.

The Dahlias

A few good stock plants will go a long way in making successful these plants, if large quantities of cuttings are wanted, but whatever you do propagate let it be the best—don't waste time on useless stock. If your customers are in want of small stock for planting out next May the best kinds you use yourself for cut flower purposes are none too good. Bring the dormant stock up to light now; plant them into a few inches of sandy soil, and in a carnation house temperature they soon will furnish choice cuttings, which, with a little bottom heat will root in a few weeks. These, if potted and cared for, will again in a short time furnish more cuttings. By keeping these cuttings shaded and moist in a moderately warm propagating bed they will root all right. When potting give them good new soil. They do well in a night temperature of about 55 degrees.

Reminders

Keep palms well on the dry side, especially where the temperature rules a little low.

Rest the beds of smilax a little that were cut down for the Christmas trade. It will start more freely and grow better.

Push the stock plants of bouvardias a little to induce them to break away freely. Plenty of stem cuttings are useful if stock is scarce.

Decide at once what varieties of different stock and what quantities needed for the coming season. Make plans and leave nothing to chance.

Next Week:—Canterbury Bells; Care of Violets; Pennisetums; Propagating Ficus; Vincas; Reminders.

BOOM YOUR BUSINESS
by advertising your goods in the
Horticulture

Publicity among the kind of readers reached
by this paper is THE SORT OF PUBLI-
CITY THAT PAYS.

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Not a
bad idea

Our readers' attention is called to the announcement in this issue of the plan proposed by the publicity committee of the Chicago Florists' Club for increasing the sale of flowers for St. Valentine's Day. Flowers are the ideal valentine gift and if the florists all over the country will enter promptly and enthusiastically into this very simple and practical publicity scheme there can be no doubt that the sale of flowers for that purpose will be materially increased this year. The proposition seems

an excellent one and we hope it can be carried out in a manner creditable to the flower trade. Should it, however, be made use of as a pretext for storing flowers in advance and jacking up selling prices for the occasion, then will all the advantages to the florists' business from this effort be more than nullified and the trade will be forced to face the inevitable penalty of public resentment and virtual proscription. Watch out.

Watch
the game

Considerable anxiety has been felt among the plant importing trade in regard to a rider understood to be attached to the Agricultural Appropriations Bill now before Congress, which, if passed, would give the Federal Horticultural Board at Washington arbitrary and autocratic control over the business of nurserymen or florists who ship plants or trees, with power to establish a quarantine on suspicion without a hearing. It is quite a relief now to learn, on the authority of the chairman of the Committee on Agriculture that no such rider as was feared has been tacked on to the Agricultural Appropriation Bill. It will be well, however, for all clubs and associations of florists, seedsmen and nurserymen, local as well as national to keep a close watch on movements in Washington for it is well known that there are influential interests constantly active to whom the welfare of the commercial horticultural people is a very minor consideration.

Do your
spring buying
early

We gladly give space to the communication in this issue on the traffic situation and its lesson. The burdensome effects of the unprecedented car shortage have already been severely felt by florists and others sending out or expecting shipments of holiday goods and the outlook for the coming months, as given by our correspondent, is not overdrawn. Those who contemplate purchasing building material, heating or ventilating apparatus, implements, or outfit of any kind for the coming spring should get busy at once, else they are in danger of loss and embarrassment from freight congestion and delay. As the costly holiday experience has shown, similar trouble is not improbable in the transportation of plants and the lighter classes of florists' supplies by express. "A word to the wise is sufficient." Watch the advertisements in this paper as they appear from week to week and place orders well ahead. Advertisers, too, should make their announcements very early this season, for obvious reasons.

An
admonition

The results of the fire at the plant of The Robert Craig Company last Saturday might have reached the proportions of a stupendous calamity to one of the best known plant growing establishments on the continent had the weather been such as might reasonably be expected at that date. "What fools these mortals be!" What in the world can the owners of such a plant be thinking of to have a lot of wooden supports, partitions, roofs and other inflammable material about their boiler house? A comparatively modern establishment, at that! Only recently we took occasion in our editorial notes to mention the great advancement which had been made of late years in the construction of greenhouses and especially their heating outfit, whereby fire risk in such structures has been reduced to a minimum. This latest disclosure shows there is still room for improvement. The lesson, fortunately, has been at a comparatively insignificant cost and all friends of dear old Robert Craig will rejoice. But these disasters should be practically impossible in modern built places.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Tar Paint on Pipes (in reply to inquiry)

There is no question that all the heating pipes will last much longer if they are painted so that they will not rust. It is not the winter that is hard on them but it is the summer when it is damp under the benches from frequent waterings, and there being no heat in the pipes they have no chance to get real dry. However, great care should be taken as to the paint that is used for the work. There is only one safe paint and that is a mixture of linseed oil and lamp black. White lead can be used, but it should be mixed with linseed oil only, being careful not to put in any turpentine or drier. There will be some fumes from either of these mixtures, but if the work is done in the summer so that the paint will have plenty of time to dry there will be no harm done, as plenty of air is always on in the fall, and all the pipes are not used at once, but one after another as the weather gets colder. Tar is poisonous to plant growth, so are its fumes. We know of nothing that will kill the fumes coming from tar on the pipes and we know nothing that will remove it save going over the pipes with a gasoline blow torch and burning the paint off. This will be a very slow job and it must be done thoroughly or it will do no good. If the plants in the house are burned badly they could be dried off and started up again and still get a good crop of roses in for the spring, but the tar will have to come off while the plants are being dried off, or the leaves will come off about as fast as they come out when the plants are started again. Keep as much air on as possible, even if the house runs cold, and open the vents away up in the section where the torch will be in use. Sprinkle the plants well and keep them so right in the vicinity where the torch is being used, as the water will keep the smoke and fumes from the leaves, thus helping them escape without much injury.

Care of Cuttings in the Sand

See that these are sprayed with copper right after they are put in so that the danger from spot will be lessened. It will not cure spot but it will keep it from spreading and help the grower control it. Water should always be applied so that the cuttings will be dry at night; that is—their foliage should be dry. Proper attention will have to be paid to temperature and at no time should the cuttings be allowed to get cold. This would be a bad check for them and there would be a great many that would never recover from it.

Selection of Wood for Second Batch

This will apply also to the first batch of cuttings, for smaller places where propagation has just started. It should be remembered that the future of the plants largely depends on the stock they come from and care should be taken to select only wood that is clean and healthy, from freely growing plants. It may save a little in the beginning to take wood from plants that are

poor and not paying, but in the long run it will not pay as the plants will be getting worse and worse as years go by and finally the whole variety will have to be thrown out, all because the plants were bred down instead of up so that the plants following would have increased vigor and bear more flowers than the ones before them. Take care to get as many heel cuttings as possible. These will always root better, and as there are any number of small eyes at the heel there is plenty of chance to get bottom shoots after the plants are potted or growing in the bench, and it is the bottom shoots that will produce the flowers even though the first bud is seldom good. When taking wood from Beauties use regular flowering wood rather than blind wood. It will make much better and stronger plants and will cut far more flowers. When taking Tea wood, see that only such wood as can be used is taken from the plants as it is useless and wasteful to cut the plants all to pieces for nothing. With the varieties now grown wood is none too plentiful, as nearly all of it is flowering wood and as soon as more than so much is taken the plants are being robbed and will be hurt if they are cut too severely. By careful cutting of the wood, there should be but very little waste, and outside of a few discarded leaves and tops of shoots there should be nothing left after the cuttings are taken out. As fast as the wood is cut it should be ducked into water and immediately taken down to the cellar or packing room where it is cool, and where the wood can be kept damp until it is used up. It is best not to keep it in water as this water soaked wood will not root as well as that which is kept moist and yet not soaked all the time.

Hadley vs. Hoosier Beauty

Mr. Arthur Ruzicka.

Dear Sir: Will you kindly advise me as to which is the better red rose of the two varieties, viz., Hadley and Hoosier Beauty. I read last week's HORTICULTURE account of the New York flower market. It stated that Hoosier Beauty is no match for the irresistible Hadley. Kindly inform me of the merits of both. Also, growing Ophelia side by side with Shawyer, I find the latter is the best in cool weather. Does Ophelia require more heat?

Thanking you in anticipation,
New York.

W. A.

The report you read in HORTICULTURE was correct. I have not as much experience with either variety as some growers who specialize in one or the other, but were I to choose the better one it would be Hadley every time. I have seen both in the prime and both at their worst, and Hadley was always better both as a grower, where it held its foliage better, and in the markets where it sold much better, being, as HORTICULTURE's report stated, "in a class by itself." There is no doubt that Hoosier Beauty when well grown, carefully watered and fed, and kept cool in the houses all the time will make a very nice rose, but we are sure that if this same care and pains were taken with Hadley the results would

be far more satisfactory, and we are sure that if the grower had both roses and compared returns from the market he would quickly see which rose to discard. A trip through the wholesale market, and a few visits to some of the leading retail stores will be of great help to anyone wishing to get a line on any variety, if it is to be grown for market. If it is to be grown for home use, then, of course, the variety that is best liked will have to be grown. Regarding Shawyer and Ophelia, these varieties, like some others of the type, will always do better in cooler weather. They may not grow so fast or produce the quantity of buds, but the buds will be much larger and finer in every way and the same may be said of the foliage. The very double varieties, such as Mock, Scott Key, etc., etc., will do better in warmer weather as they will

not open so well during the dark days of the winter. Ophelia does not require more heat to make it grow and the amount of heat given will have to depend on what purpose the roses are to be used for. If for the private table where quality is always first, then it will be necessary to keep them cool. If for the market where only a good standard quality is necessary, then they can be run warmer. Of course, running the plants cool will give you less flowers, and the plants will not grow so fast as they would if the plants were run warmer. In growing the two varieties in the same house it will be best to plant the Shawyer to the front and the Ophelia to the back benches. It would be better, though, for the grower and for the roses, too, if they were planted separately, a houseful of each, it being much easier to handle the plants in this way.

THE BELGIAN SITUATION.

The following extract from a circular letter from an importing house to their American customers contains much of general interest to the trade as to the outlook in plant imports for next season.

"Though shipments from Belgium were made every spring and fall since the war began, the three circular letters we sent you the past fall gave you some idea of the difficulties, uncertainties and expense we had to contend with to get them. What the conditions will be next spring and fall, if the war continues, it is impossible to foresee.

"Up to now shipments were made with the consent of both the British and German authorities. We expect to get these consents again for next season's shipments, and the canal boats will likely also be permitted to continue to carry the shipments from Ghent to Rotterdam. Any difficulties that arise next season will likely come after the shipments leave Ghent, and of course no Belgian can learn anything about conditions which prevail in the world outside of Belgium.

"Last fall most of the shipments arrived in good condition; some shipments arrived late as a result of war conditions and there was some loss on them—mostly due to the congested condition on our railroads, but whatever profit was made (and the profit was large in many instances) was made by the purchasers. Our Belgian firm can make no profit under present conditions, nor can we—our extra expenses in getting the shipments through the lines and quickly forwarded from here puts the matter of profit for us entirely out of the question.

"In view of these facts we will book orders next season for Belgian stock from our regular customers only—those who imported through us from Belgium last season. We figure that by cutting down business to about one-third of normal, we can have shipments made by fast passenger steamers, and devote all our energy and capacity to the service of those firms who usually depend upon us for their Belgian goods.

"Prices are lower than before the war began—except on some sizes of Kentias, the stock will be equally as good and packed as well as in normal seasons, but so there will be no later misunderstandings we will clearly de-

fine the conditions of sale—as we cannot issue a 1917 Belgian catalogue—nothing printed, or anything written in English can pass in or out of Belgium.

"All import orders are booked under 1916 catalogue conditions, the purchaser accepting shipment at Ghent nurseries and it travelling from there at his risk and expense. As it may be impossible to cancel an order once placed, we require a deposit of 25 per cent. with order to guarantee acceptance of shipment at destination. No order will be reported to Belgium until these conditions are accepted and the deposit made. All shipments are covered by both marine and war risk insurance to New York, though it is of course impossible to get any insurance to cover risks of damage to perishables to destination.

"This season we do not offer Belgian grown *Ficus elastica*—as we can offer American grown to better advantage. Nor do we offer *Dracaenas*—as we can offer you *Dracaena* canes so you can propagate your own plants. Nor are we offering small *Kentias* or *Cocos Weddeliana*—as we can offer you the seeds so that you can grow your own.

"We have outlined the situation frankly to you; you know what risks you take, what chances of large profits are yours. We urge mailing orders as soon as possible, as the mails take much longer to get into Belgium than the shipments to come out of there under present conditions."

McHUTCHISON & Co.

PERSONAL

The park commission of Hartford, Conn., have selected Professor Henry A. Perkins of Trinity College to fill out the unexpired term of the late Lyman B. Brainerd, the member of the board who died October 1. The term ends May 1, 1919.

W. C. Stone, assistant horticulturist at the Experiment station, Burlington, Vt., has gone to Geneva, N. Y., where he will fill the same position at the New York state Experiment station. Mr. Stone is the third man to go to the New York station from that of Vermont in recent years. He was graduated from the university of Vermont in 1912 and given the degree of M. S. in 1914. John B. Norton, U. V. M., 1912. M. S. Massachusetts Agricultural college, 1914, succeeds Mr. Stone.

CONCERNING HOLLAND SHIPMENTS OF LILY OF THE VALLEY.

HORTICULTURE, Boston.

Gentlemen:—I am enclosing copy of a letter received from the State Department which explains itself. So far as I was advised and from all information I have had up until this time, of these goods for which permits were asked from the neutral countries—lily of the valley pips, seeds, etc., all were produced in the countries asking for the permits. From the enclosed it would seem that I have been misinformed.

W. F. GUDE,

Washington Representative
of the S. A. F.

December 22, 1916.

Messrs. _____,
New York City.

Gentlemen:—With reference to previous correspondence in regard to your desire to obtain a shipment of lily of the valley pips from _____ of Copenhagen, you are informed that the Department has just received a cablegram from the American Minister at Copenhagen stating that he is informed that the crop of lily of the valley pips in Denmark is this year only one-fifth to one-tenth of the normal crop and that, therefore, to fill existing orders, German pips will have to be used. The Minister indicates that this accounts for the attitude of the British authorities and that _____ are unwilling to make shipments unless positive assurances of non-interference are given by the British authorities. The Minister states that _____ has 1,000,000 Danish grown and 5,000,000 German grown pips.

In view of this information the Department is instructing the American Ambassador at London by cablegram to endeavor to obtain assurances of non-interference with at least the 1,000,000 pips which the Department is informed are of Danish origin.

As soon as any information is received from the Ambassador it will be communicated to you. You will be informed at a later date of the cost of the Department's cablegram and of any reply thereto.

I am, Gentlemen,

Your obedient servant,

For the Secretary of State:

ALVEY A. ADEE,

Second Assistant Secretary.

CLUBS AND SOCIETIES

NEW YORK FLORISTS' CLUB.

The opening meeting for this momentous year in the history of the New York Florists' Club, on Monday evening, Jan. 8, was what might fairly be termed a rouser. The new officers were duly installed, each making his little speech of appreciation and zeal for the duties incumbent upon him and President G. E. M. Stumpp made a most excellent impression in the manner in which he filled the chair. It was the general verdict that this session betokened a record year for the club. Four new names were added to the membership and nineteen more were proposed.

All official reports were in a satisfactory strain. The treasurer and trustees showed a balance of nearly \$15,000 in the treasury. C. B. Weathered reported on the coming International Flower Show, showing that space is being rapidly taken up and that many advertising orders for the Official Program are coming in, thus assuring the best of the series thus far.

A communication from Winfried Roekler asking for consideration of the proposed White Pine Blister exclusion legislation was referred to the legislative committee.

The secretary was instructed to write a letter of good cheer and hope for speedy recovery to Joseph Vocke, of W. H. Siebrecht's, Coogan Building, who is ill at Ashville, N. C.

President Stumpp made the following appointments.

Delegates to the State Federation of Horticultural Societies and Florists' clubs at Ithaca; F. R. Pierson and Prof. E. A. White.

Legislative—W. H. Siebrecht, Jr., James McHutchison, F. R. Pierson.

Essays and Lectures—Leonard Barron, J. Harrison Dick, L. W. C. Tut-hill.

Exhibitions—Chas. W. Knight, H. C. Riedel, Richard Hughes.

House Committee—P. F. Kessler, A. Buckholz, Alex. H. Donaldson.

Annual Dinner—A. L. Miller, Charles Schenck, Emil Schloss, T. B. de Forest, J. G. Esler.

Awards—P. W. Popp, Chas. H. Brown, Julius Roehrs, P. B. Rigby, Joseph Manda, W. H. Duckham, Henry Weston.

To Secure Special Premiums—John Canning, W. R. Cobb, Julius Roehrs, W. H. Siebrecht, F. H. Traendly.

Awards on exhibits for the evening were made as follows: Florex Gardens, North Wales, Pa., Rose September Morn, highly commended; H. F. Byxbee, Norwalk, Conn., Daphne odora, cultural certificate; G. F. Neipp, Chatham, N. J., seedling carnation, No. 22, highly commended; P. W. Popp, Roman hyacinths, vote of thanks.

It was voted that the February meeting take the form of a S. A. F.

Meetings Next Week

Monday, Jan. 15.

Detroit Florists' Club, Bemb Floral Hall, Detroit, Mich.
Houston Florists' Club, Chamber of Commerce Rooms, Houston, Tex.
New Jersey Floricultural Society, Orange, N. J.

Tuesday, Jan. 16.

Gardeners' and Florists' Club of Boston, Horticultural Hall, Boston, Mass.
Gardeners' and Florists' Club of Ontario, St. George's Hall, Toronto, Can.
Minnesota State Florists' Association, Minneapolis, Minn.
Pennsylvania Horticultural Society, Horticultural Hall, Philadelphia, Pa.

Wednesday, Jan. 17.

Rhode Island Horticultural Society, Public Library, Providence, R. I.
Tarrytown Horticultural Society, Tarrytown, N. Y.

Thursday, Jan. 18.

Essex County Florists' Club, Kreuger-Auditorium, Newark, N. J.
New Orleans Horticultural Society, Association of Commerce Bldg., New Orleans, La.
North Westchester County Horticultural Society, Mt. Kisco, N. Y.
Tacoma Florists' Association, Macabee Hall, Tacoma, Wash.

Friday, Jan. 19.

North Shore Horticultural Society, Manchester, Mass.

Convention arrangement night. Working committees will be appointed and all wires put into service with a view to work up and perfect arrangements for the greatest convention in history of the National Society.

THE FLORISTS' HAIL ASSOCIATION.

A bill to extend the corporate existence of the Florists' Hail Association will be introduced in the New Jersey Legislature this winter by Hon. Walter G. Winne, an assemblyman from Bergen Co.

This matter gives some of our old timers some food for reflection, that thirty years have elapsed between the time the F. H. A. started out upon what was at that time an unknown venture, and practically a guess as to the required rates.

The writer sometimes wonders whether those who assumed the responsibility of putting what was then an unknown insurance effort upon its feet, would have the gall to attempt the same performance today.

The adjustment of nearly 2,500 claims amounting to nearly \$400,000 without a single law suit is one of the things that the originators of a novel form of insurance have reason to look upon with more than passing pride.

JOHN G. ESLER.

Saddle River, N. J.

MASSACHUSETTS HORTICULTURAL SOCIETY.

The Inaugural Meeting of the Massachusetts Horticultural Society for the year 1917 will be held at Horticultural Hall, Boston, on Saturday, January 13, at twelve o'clock, to hear the Inaugural Address of the President, the report of the Board of Trustees, the report of the Committee on Prizes and Exhibitions, and the reports of the various other committees of the society, which reports will be open for discussion and action.

WILLIAM P. RICH, Secy.

Program of lectures and discussions during the season of 1917 to be held at Horticultural Hall, Boston, Saturdays, at 2 o'clock, P. M. unless otherwise stated.

January 13.—New England Gardens. Illustrated with direct color photographic slides. By Loring Underwood, Boston.

January 20.—Seed Sowing Suggestions. By William N. Craig, Brookline.

January 27.—Formation and Characteristics of Peat and Muck Lands and Some of their Uses. By Alfred P. Dachnowski, Physiologist, Department of Agriculture, Washington.

February 3.—Perennials we should grow. Illustrated. By Prof. Arno H. Nehrling, Mass. Agricultural College, Amherst.

February 10.—Recent Troubles with our Forest Trees. Illustrated. By Prof. F. W. Rane, State Forester, Boston.

The John Lewis Russell Lecture.

February 17.—Biological Principles of Plant and Animal Breeding. Illustrated. By Dr. W. E. Castle, Bussey Institution, Jamaica Plain.

February 24.—Bees in Relation to Horticulture. Illustrated. By Dr. Burton N. Gates, Mass. Agricultural College, Amherst.

March 3.—Strawberry Culture. By O. M. Taylor, New York Agric. Exper. Station, Geneva.

March 10.—Cranberry Culture. Illustrated. By Marcus L. Urann, President United Cape Cod Cranberry Co., South Hanson.

March 17.—Orcharding in the West and South. Illustrated. By Prof. F. C. Sears, Mass. Agricultural College, Amherst.

March 24.—No lecture on this date. Spring Flower Show.

March 31.—Alpine Plants. Illustrated. By Mrs. Louis Chanler, New York.

WILFRID WHEELER, Chairman.

HORTICULTURAL SOCIETY OF NEW YORK.

An exhibition will be held in the American Museum of Natural History, Central Park West and Seventy-

seventh street, New York City, January 13th and 14th. The schedule provides for orchids, open to all, three classes; carnations, open to all, two classes; also the medals of the Society will be awarded to the best vases of new varieties; carnations for non-commercial growers, nine classes; miscellaneous cut blooms and plants, open to all, four classes, and four for non-commercial growers.

Special prizes can be awarded by the Exhibition Committee for interesting and unusual exhibits not provided for in this schedule.

A meeting of the Society will be held in the West Assembly Room at 4 o'clock with a lecture, illustrated with colored lantern slides, by John Scheepers on "Darwin and Other Tulips."

CHICAGO FLORISTS' CLUB.

Plan for Cooperative Advertising.
Editor HORTICULTURE:

At the January meeting of the Chicago Florists' Club it was the unanimous action to put under way a plan of co-operative advertising, and this work was placed in the hands of three gentlemen to act as a committee on publicity, viz.: Michael Barker, Geo. Asmus, F. Lautenschlager, chairman.

Our first undertaking will be in the form of an active campaign to stimulate and create a greater demand for flowers for St. Valentine's Day, February 14, 1917. The form of advertising to be used is similar to the poster stamp fad now used so extensively in a number of other commercial lines, and this committee is confident that a great deal of good will result in this movement for the florist trade at large.

We have contracted for a very large supply of special heart-shaped stamps for distribution to the general public. These stamps are beautifully designed, and have the following inscription:

"LET YOUR VALENTINE GIVE FLOWERS."

Every box of flowers and every piece of mail sent out by the florists in this country should carry one of these beautiful stamps as a suggestion to use flowers for your Valentine. The Chicago Florists' Club has arranged to furnish these stamps to interested parties at a reasonable price, and any profit derived from the sales will be applied to future advertising schemes—a sort of endless chain and profit-sharing plan of advertising for the florists of this country.

May we not call on you to publish this announcement in your editorial column and thereby receive your co-operation and help in this movement? In order to call attention of the florist trade at large to this undertaking, you may state that florists of other cities can purchase these stamps of us for their own use. Price list and order blank will be issued the coming week, and we advise that order be sent in immediately.

Stamps are already going very fast—one of the leading florist concerns of Chicago specified 25,000 on their first order. Send all correspondence and orders to F. Lautenschlager, 440 W. Erie Street, Chicago, Ill.

AMERICAN CARNATION SOCIETY.

In view of the hardware dealers' convention which is to be held in this city at the same time as the carnation meeting, it has been deemed advisable by the reception committee to see that the rates of the Indianapolis hotels were published so that reservations may be made in due time. There is plenty of excellent hotel room in Indianapolis included in the following list.

Grand Hotel, rooms \$1.00 up, with bath \$1.50 up.

Washington Hotel, rooms with bath, \$1.50, \$2.00, \$2.50, \$3.00.

Claypool Hotel, single room without bath, \$1.50; with bath \$2.00.

Severin Hotel, room with shower bath \$1.50; with tub bath \$2.00 to \$3.50 (European plan).

JOHN BERTERMANN, Chairman.

CHICAGO TO INDIANAPOLIS.

Carnation Meeting and Exhibition.

For the annual convention of the American Carnation Society to be held at Indianapolis, Ind., January 31 and February 1, the Monon Route has been selected as the shortest and most convenient line for the Chicago party. The one-way fare between Chicago and Indianapolis is \$4.60 and the party fare for 10 or more, \$4.14 each. Lower berths, \$2; upper berths, \$1.60.

The night train leaving the Dearborn station, Polk and Dearborn streets, Tuesday, January 30, at 11.40 P. M., due in Indianapolis 4.30 A. M. has been chosen by the Florists' Club as the convention train for its members and others wishing to join the party. Berths on the night train are ready at 10 o'clock and can be occupied until 7.30 A. M. the next morning.

Reservations should be made early to secure the party rate by writing or telephoning Herbert Wiley, General Agent Passenger Department, 104 South Clark street, Chicago. Telephone Harrison 3309.

For those who wish to reach Indianapolis earlier the Monon Route has an evening train, leaving the Dearborn station Tuesday, January 30, at 5.30 P. M., due in Indianapolis at 10.30 the same night.

MICHAEL BARKER,

Chairman Transportation Com.,
Chicago Florists' Club.

AMERICAN ROSE SOCIETY.

The Executive Committee of the American Rose Society met in Philadelphia, Pa., in connection with the local committee for the exhibition in March. A resolution was passed to call for 50 per cent. of the guarantee fund to be paid to the order of the American Rose Society on or before February, 1917. Everything pertaining to the coming exhibition seemed to be moving along nicely towards its success.

Application for the registration of a new rose was made by John H. Dunlop, Richmond Hill, Ontario, as follows:

"Mrs. Henry Winnett." Parentage—Russell × Shawyer. Color—bright, red, about shade of Richmond. Large full flower, solid color, foliage ample.

Deliciously fragrant, combining the keeping qualities of Russell with the freedom of Shawyer. Form good, petals well reflexed and of solid texture.

Mr. Dunlop said: "I am proud of being the first Canadian grower to have the honor of entering a seedling of such sterling merit, as I have had a number of visitors both from the United States and different parts of Ontario, and all agree as to the quality of this new rose."

A resolution was passed of regret at the death of W. C. Barry, Ex-Mayor of Rochester, N. Y., who was one of the earliest supporters of the American Rose Society, and was held in esteem by every one who knew him, as a man of quality and fine character.

The preliminary schedule of prizes was adopted and will be issued without delay.

BENJAMIN HAMMOND, Secy.
Beacon, N. Y.

TARRYTOWN HORTICULTURAL SOCIETY.

The annual meeting of the Tarrytown Horticultural Society was held in the Corporation Building, Banquet Room, Thursday evening, December 28. President John Featherstone presiding.

The secretary's report showed the society to be in a flourishing condition. The following officers were elected: Joseph Bradley, president; George McIntosh, vice-president; E. W. Neubrand, secretary; A. H. Brown treasurer; John Grant, reporting secretary. Board of Directors: F. R. Pierson, Charles D. Millard, Isaac Rogers, Dr. R. B. Coutand. Executive committee: J. Featherstone, Charles R. Russell, J. Elliott, Thos. A. See, John Woodcock, Abel Weeks, J. Grant, G. Wittlinger, Wm. Jamieson, and Joseph Mooney. The exhibit for next meeting will be carnations.

The annual dinner will be held at Florence Inn, January 16.

J. GRANT, Cor. Secy.

SOUTHAMPTON HORTICULTURAL SOCIETY.

The annual meeting of the above society was held on January 4th in Oddfellows' Hall, Southampton, N. Y. Officers for the ensuing year were elected as follows: President, C. Guillo; vice-president, Wm. McLeod; secretary, H. H. Wells; treasurer, Geo. Campbell; financial secretary, S. R. Candler; corresponding secretary, J. Dickson; executive committee, R. Melrose, chairman, G. Anderson, Walter Jagger and D. T. Wells.

It was decided that the regular meeting of the society shall be held on the first Thursday of each month, and that a small competitive exhibition shall be held in connection with each meeting. The subject for competition at the next regular meeting (Feb. 1) will be six varieties of evergreen shrubs, six varieties of deciduous shrubs and six varieties of berried shrubs, to be shown as sprays.

J. DICKSON, Corres. Secy.

CHICAGO FLORISTS' CLUB

The Chicago Florists' Club held its regular meeting Jan. 4th at the Morrison Hotel with a large attendance. Installation of officers and the naming of committees were the principal features of the meeting. Owing to illness the president-elect, Wm. H. Amling, was unable to be present but the other officers, Paul R. Klingsporn, vice-pres., Otto Amling, treas. and A. J. Zech, secy., were present and duly installed. The following standing committees were named: Good of the club, Geo. Asmus, Guy French, Fred Lautenschlager; sports, Peter Olsem, Joe Einwich, Fred Price; transportation, M. Barker.

The advertising question again came up, this time with a definite proposition to get out little Valentine posters for boosting that day. They contain the practical hint, "Let your Valentine present be flowers," and will be used on boxes and parcels. Arrangements for the trip to Indianapolis, where the annual convention of the American Carnation Society will take place Jan. 31 and Feb. 1, were reported by the transportation committee and will be found elsewhere.

A committee was appointed to draft resolutions on the deaths of Wm. F. Kroeschell and N. J. Rupp.

I. Cole of Springfield, Ill., called attention to the need of revising the premium list at the state shows and cutting out varieties no longer in general cultivation.

C. T. Guenther, of Hamburg, N. Y., had a vase of Chrysanthemum Hamburg Late White, which was fine for the season. Fred Stielow of Niles Center, Ill., had fine sample vases of Mrs. Russell and Ophelia roses. Wellworth Farms Greenhouses showed Milady and Killarney Brilliant roses which were much admired. A vote of thanks was given the exhibitors. The Secretary reported 344 members in good standing.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The next regular monthly meeting of the Club will be held at Horticultural Hall, Boston, on Tuesday evening, January 16, 1917, at 8 o'clock.

The annual installation of the newly elected officers will be performed; each officer will make a short address. There will be no regular lecture, and only necessary business will be transacted. There will be reports from the treasurer and secretary on the past year's operations. Following the business session, there will be a pleasing entertainment, followed by a collation and dancing. Ladies are cordially invited to be present.

The annual club banquet will be held at Horticultural Hall on Wednesday, February 7.

The field day originally arranged for December 16, at Framingham, Mass., had to be postponed owing to the severe snowstorm. It will be held on January 20, 1917. Special car on the Boston and Worcester railroad will leave Park square, Boston, at one o'clock sharp. A cordial invita-

FIRE AT CRAIG'S



AFTER THE FIRE AT CRAIG'S.

Fire broke out in the boiler house at about 6 P. M., Saturday, January 6th, in the Norwood, Pa., establishment of the Robert Craig Company. In consequence, the main supplying the heat for the entire range became

severed and the whole place was in jeopardy. Fortunately the weather was mild and by strenuous work with oil stoves, etc., the stocks were all saved until repairs could be made. The loss will probably be not over a thousand dollars. No insurance.



AFTER THE FIRE AT CRAIG'S.

tion is extended, not only to club members, but to all others interested in seeing high-grade carnations, and other commercial crops, to attend. The establishments which we hope to visit are those of S. J. Goddard, W. R. Nicholson, John W. Nelson and John T. Butterworth.

W. N. CRAIG, Secy.

The officers of the New Haven County (Conn.) Horticultural Society for 1917 are as follows: President, Wm. J. Rathgeber; vice-president, George A. Crombie; secretary, W. C. McIntosh; treasurer, David Kidd.

NEW CORPORATIONS.

Boston, Mass.—McAlpine & McDonald, nurserymen and florists; capital stock, \$25,000. Incorporators, William A. McAlpine, C. Frank McDonald and Florence E. Sheare.

PHILADELPHIA NOTES.

Among the twenty-nine who sat down to the John Burton Christmas dinner there were fourteen grandchildren. Twenty-nine is a pretty hefty family gathering.

Frederick J. Michell, Jr., of the seed firm of Henry F. Michell Company, as speaker at the weekly luncheon of the Rotary Club, at the Hotel Adelphia, gave some very interesting facts on "Seeds, Bulbs and Plants" on January 3.

The preliminary prize list of the American Rose Society is now on the press and will reach the trade very shortly. This is for the big rose festival to be held in Philadelphia, March 20, 21, 22, 23. About five thousand dollars in cash premiums is offered, besides many gold and silver medals. It promises to be a great show.

CATALOGUES RECEIVED.

Sluis & Groot, Enkhuizen, Holland.—General Price List of Vegetable, Flower and Agricultural Seeds. Wholesale.

A. Kolos & Co., Gouda, Holland.—Wholesale Catalogue of Nursery Stock, hardy and tender, 1917-18, American Edition.

Holmes-Letherman Seed Company, Canton, Ohio.—"Holco" Seed Book for 1917. A flower bordered lawn picture makes an attractive cover adornment.

W. Atlee Burpee & Co., Philadelphia, Pa.—Wholesale Edition of "Seeds That Grow" for 1917. For Seedsmen and Dealers only who buy to sell again. The old reliable "Red List."

Arthur Cowee, Berlin, N. Y.—"The Glory of the Garden." An attractive booklet, finely illustrated with views in Meadowvale Farm and the choice varieties of Gladioli grown there.

Carter's Tested Seeds, Boston, Mass.—American Catalogue of Garden and Lawn Seeds for 1917. This is a condensed form of the more elaborate London publication. There are eight pages in colors of select varieties of garden annuals, etc.

W. Atlee Burpee & Co., Philadelphia, Pa.—Burpee's Annual for 1917. Forty-first year of "The Plain Truth About

Seeds That Grow." The new aster American Beauty in full color makes a tempting front cover illustration, and on the back appears Fordhook Bush Lima Bean and Burpee's Dwarf Giant Tomato. The first edition of this catalogue is 600,000 copies. An advance in prices of sweet corn is noted.

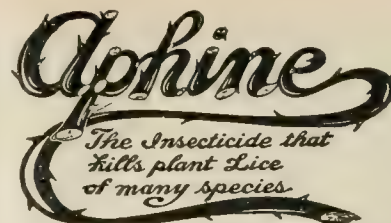
Charles H. Totty, Madison, N. J.—Chrysanthemums, Roses, Carnations and Hardy Perennials. This is the fourteenth annual catalogue of this well-known introducer of new and meritorious varieties of the specialties enumerated. Externally it is distinctive, a heavy embossed cover and internally it will be found of engrossing interest for the florist or gardener whose ambition it is to be fully up-to-date in his stock.

Peter Henderson & Co., New York City.—"Everything for the Garden." The 1917 issue of this always high-class publication is fully up to the best they have ever done and, we should say, better, if that is possible. Ornate covers, gold embossed, with rich inserts in color, make a lovely setting and this 208 pages of contents are superbly embellished with plates, many of them new, and some twenty-five or more in natural colors.

D. Landreth Seed Co., Bristol, Pa.—Price List for 1917. This publication gets distinctly away from the typical seed catalogue and is quite unique in its features. The cover design calls attention to the fact that this house was founded 133 years ago. The Wholesale Price List for Merchants is bound into the front part of the general catalogue for special circulation, a convenient and economical arrangement. Announcement is made of advance in retail prices of several varieties of sweet corn and beans.

H. F. Michell Company, Philadelphia, Pa.—General Catalogue. This annual visitor comes this year with covers of dazzling brilliancy—bright hued butterflies flitting among waving Buddleia plumes, and flower bordered lawns; seeds, plants, hardy and tender, bulbs, nursery stock, small fruits, implements and sundries profusely illustrated fill its 236 pages to the limit. At the same time comes this firm's wholesale price list for the trade, 108 pages with cord already attached so that it may be hung up for handy reference.

R. & J. Farquhar & Co., Boston.—Garden Annual for 1917. In this edition Messrs. Farquhar have departed from their former style of colored covers and present instead two charming rose garden views on white background. It has been said that very few novelties are offered in this season's catalogues but this Farquhar catalogue is not lacking in that respect, the number of sterling new introductions here offered for the first time being quite large and it is known that others equally sensational are to follow next season. The illustrations in this publication are many and altogether the best this firm has sent out.



The Recognized Standard Insecticide. A spray remedy for green, black, white fly, thrips and soft scale.

Quart, \$1.00; Gallon, \$4.50.

NIKOTIANA

A 12% nicotine solution properly diluted for fumigating or vaporizing.

Quart, \$1.50; Gallon, \$4.50.

Until further notice shipments on our products FUNGINE, VERMINE and SCALINE will be subject to conditions of the chemical market.

Prompt shipments can be guaranteed on APHINE and NIKOTIANA.

Aphine Manufacturing Co.
MADISON, N. J.



Save your plants and trees. Just the thing for greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrips, Red Spider, Black and Green Fly, Mites, Ants, etc., without injury to plants and without odor. Used according to direction, our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pets. Excellent as a wash for dogs and other animals. Relieves mange. Dilute with water 30 to 50 parts.

1/2 Pint, 25c.; Pint, 40c.; Quart, 75c.; 1/2 Gallon, \$1.25; Gallon, \$2; 5 Gallon Can, \$9; 10 Gallon Can, \$17.50.

Directions on package.

LEMON OIL COMPANY

Dept. S. 420 W. Lexington St., Baltimore, Md.

USE WIZARD BRAND
CONCENTRATED PULVERIZED MANURE

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Pulverized SHEEP MANURE

The Florists' standard of uniform high quality for over ten years. Specify WIZARD BRAND in your Supply House order or write us direct for prices and freight rates.

The Pulverized Manure Co.
No. 31 Union Stock Yards
CHICAGO

IMP. SOAP SPRAY

Is a scientifically prepared compound that is highly efficient for ALL insect pests. Why bother with several sprays when this will answer every purpose throughout the year?

LOOK FOR THE IVY LEAF TRADE MARK.

Ask your dealer or write
EASTERN CHEMICAL CO., BOSTON

CLAY'S FERTILIZER

Endorsed by all Growers

112 lb. \$7.00

WM. ELLIOTT & SONS
42 Vesey St., New York

When writing to advertisers kindly mention HORTICULTURE.



NIKOTEEN
For Spraying
APHIS PUNK
For Fumigating
Ask Your Dealer For It.
NICOTINE MFG. CO.
ST. LOUIS

Choice Florists' Seeds for Early Sowing

	Tr. pkt.	Oz.
Ageratum Mexicanum, Blue Perfection. Fine dwarf.....	\$0.10	\$0.75
Ageratum Mexicanum, Dwarf Blue.....	.10	.30
Ageratum Mexicanum, Dwarf White.....	.10	.30
Ageratum Mexicanum, Mauve Beauty. Large flowers.....	.15	.75
Alyssum, White Gem. The best variety.....	.15	.75
Alyssum, Carpet of Snow. For hanging baskets..	.10	.50
Alyssum, Little Gem. Very dwarf.....	.10	.30
Alyssum, Benthani. The old variety.....	.10	.15
Amaryllis Hippeastrum Hybrids.....	.50	
Antirrhinum, Nelrose. Silvery pink. 4 pkts., \$1.00	.30	
Antirrhinum, Silver Pink. Originator's strain....	3 pkts., \$2.75	1.00
Antirrhinum, Venus. Delicate pink...3 pkts., 50c.	.20	
Antirrhinum, Coral Red. Striking color.....	.25	1.00
Antirrhinum, Daybreak. Light pink, white throat.	.25	1.50
Antirrhinum, Firefly. Scarlet.....	.25	1.00
Antirrhinum, Lilacinum. Lilac.....	.25	1.00
Antirrhinum, Luteum. Yellow.....	.25	1.00
Antirrhinum, Queen Victoria. Pure white.....	.25	1.00
Antirrhinum, Int., Orange King. Orange self....	.25	2.00
Antirrhinum, Int., Pink Queen. Creamy pink....	.25	2.50
Asparagus plumosus nanus. Greenhouse grown..	\$3.50 per 1000 seeds	
Asparagus plumosus nanus. Californian grown...	\$2.50 per 1000 seeds	
Asparagus Sprengeri.....	.75c. per 1000 seeds	
Aster, Early Wonder, Lavender.....	.25	3.00
Aster, Early Wonder, Pink.....	.25	2.00
Aster, Early Wonder, White.....	.25	2.00
Aster, Carlson's Branching, Lavender.....	.25	1.00
Aster, Semple's Branching, Shell-Pink.....	.25	1.00
Aster, Vick's Branching, White.....	.25	1.00
Aster, Daybreak. Shell pink.....	.25	3.50
Aster, Purity. Pure white.....	.25	2.00
Aster, Violet King. Giant flowers.....	.25	2.00
Aster, Lady Roosevelt. Lovely pink, long stems..	.25	5.00
Begonia Erfordi.....	.5 pkts., \$1.00	.25
Begonia, Prima Donna.....	.5 pkts., \$1.00	.25
Begonia, Vernon.....	.5 pkts., \$1.00	.25
Begonia Vernon grandiflora rosea...5 pkts., \$1.00	.25	
Calendula, Lemon Queen.....		.10
Calendula, Orange King.....		.15
Calendula, Prince of Orange.....		.10
Candytuft, Giant Hyacinth-flowered. White.....	.25	1.00
Candytuft, Empress. Pure white.....	.10	.35
Candytuft, White Rocket.....	.10	.25
Celosia Thompsoni, Crimson.....	.15	1.50
Celosia Thompsoni, Golden Yellow.....	.15	1.50
Celosia Thompsoni, Pink.....	.15	1.50
Celosia Thompsoni, Purple.....	.15	1.50
Centaurea Candidissima (Dusty Miller).....	.25	2.50
Centaurea Gymnocarpa. Very tall.....	.10	.75
Centaurea Cyanus, Double Blue.....	.15	.75
Cineraria Maritima.....	.10	.30
Cineraria Maritima Diamond. Splendid for bedding.	.20	1.00
Cobea Scandens. Blue.....	.10	.40
Cobea Scandens alba. White.....	.15	1.00
Coleus Rainbow Hybrids.....	.50	
Dracaena Australis. Broad foliage.....	.25	
Dracaena Indivisa. Slender leaves.....	.10	.40
Grass, Pennisetum Longstylum.....	.10	.50

	Tr. pkt.	Oz.
Grass, Pennisetum Ruppelianum.....	.15	.75
Grevillea Robusta (Silk Oak).....	.25	1.00
Heliotrope, Lemoine's Giant.....	.25	1.50
Heliotrope Regale. Very dwarf.....	.25	2.00
Lobelia, Crystal Palace compacta. Dark blue....	.25	2.50
Lobelia, Emperor William. Light blue.....	.25	1.75
Lobelia Gracilis. Trailing.....	.15	.75
Lobelia Spesiosa. Dark blue, trailing.....	.15	.75
Mignonette, Boddington's Majesty. The finest variety.....	1.00	7.50
Mignonette, Allen's Defiance. Very fragrant.....	.50	6.00
Mignonette, New York Market.....	.50	6.50
Musa Ensete.....	100 seeds, 75c.; 1000 seeds, \$5.00	
Petunia, Double Fringed, Mixed.....	½ pkt., 60c.	1.00
Petunia Century Prize. Giant fringed single.....	½ pkt., 60c.	1.00
Petunia, Ruffled Giants. Splendid mixture.....	3 pkts., \$1.25	.50
Petunia, Bar Harbor Beauty. Rose, splendid bedder.....	.5 pkts., \$1.00	.25
Petunia, Rosy Morn. Carmine pink...5 pkts., 1.00	.25	
Pyrethrum Aureum (Golden Feather).....	.10	.40
Pyrethrum Selaginoides. Bright golden.....	.10	.80
Salvia Clara Bedman. Scarlet, very tall.....	.25	2.50
Salvia splendens. Bright scarlet.....	.20	1.50
Salvia Zurich. Dwarf, scarlet.....	.25	4.00
Shamrock, True Irish.....	¼ lb., \$3.00	.25 1.00
Smilax.....	.15	.50
Stevia Serrata.....	.15	1.50
Stock, Ten Week Brilliant Rose.....	.25	4.50
Stock, Ten Week, Crimson.....	.25	4.50
Stock, Ten Week, Purple.....	.25	4.50
Stock, Ten Week, Light Blue.....	.25	4.50
Stock, Ten Week, Snow White.....	.25	4.50
Stock, Cut-and-Come-Again, Apple Blossom. Light pink.....	.25	5.50
Stock, Cut-and-Come-Again, Blue Jay. Light blue.	.25	5.50
Stock, Cut-and-Come-Again, Carmine. Crimson..	.25	5.50
Stock, Cut-and-Come-Again, Princess Alice. White.....	.25	5.50
Stock, Winter, Abundance. Carmine rose.....	6 pkts., \$1.00	.20
Stock, Winter, Beauty of Nice. Daybreak pink...	.25	4.00
Stock, Winter, Crimson King.....	.25	6.00
Stock, Winter, Queen Alexandra. Rosy lilac....	.25	4.00

Texas Blue Bell. Valuable for pots and shipping. Flowers beautiful blue, 3 to 4 inches across. Trade pkt., 25c.; oz., \$1.00.

	Tr. pkt.	Oz.
Thunbergia, Mixed. For window boxes.....	\$0.10	\$0.75
Verbena, Mammoth Blue.....	.25	1.00
Verbena, Mammoth Pink.....	.25	1.00
Verbena, Mammoth Scarlet Defiance.....	.25	1.00
Verbena, Mammoth White.....	.25	1.00
Verbena, Mammoth Mixed.....	.25	1.00
Vinca alba. White.....	.15	1.00
Vinca rosea, Pink.....	.15	1.00
Vinca rosea alba. Pink and white.....	.15	1.00
Vinca Mixed. Mixed.....	.10	.75

N. B.—The stocks on some of the above varieties will be very short this season. Order early, to make sure of your requirements. 5% DISCOUNT, CASH WITH ORDER

ARTHUR T. BODDINGTON COMPANY, Inc.
128 Chambers Street, NEW YORK

REMOVAL NOTICE!

We desire to announce to the trade that we have leased the large and commodious building at 16 South Market Street where we shall be pleased to continue to serve our friends both old and new.

THOS. J. GREY CO. 16 So. Market St.
BOSTON

FIVE FLOORS OF SEEDS, BULBS AND AGRICULTURAL IMPLEMENTS

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Kirby B. White, Detroit Mich.; First Vice-President, F. W. Bolgiano, Washington, D. C.; Second Vice-President, L. L. Olds, Madison, Wis.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.

One Week's Imports.

Imports at the port of New York, of horticultural material, for the week ending Dec. 29, were recorded as follows:

Bulbs—Netherlands, \$14,550; England, \$31; Bermuda, \$68.

Plants—Netherlands, \$4,604; England, \$706; Ireland, \$51; Cuba, \$10.

Red clover seed—France, \$9,783; Ireland, \$8,040.

Clover seed—France, \$6,221; Canada, \$12,368.

Grass seed—France, \$3,088; Scotland, \$1,140.

Other seeds—Denmark, \$5,003; France, \$3,162; Netherlands, \$747; England, \$7,879.

Fertilizers—England, \$817.

Notes.

We have a complete list of the bids in detail as submitted by the various seed houses on flower and vegetable seeds for congressional free seed distribution. Somewhat higher prices are quoted than heretofore on many things. Competition is not so great as was the case last year, and only one foreign proposal was received.

Thos. J. Grey Co., one of Boston's oldest seed houses have removed their place of business to 16 South Market street. They have leased the entire building for a long term of years and will occupy the upper five floors, which have been thoroughly renovated and arranged to accommodate their large and growing business. The second floor will be used entirely as a sales room while the third floor will contain the executive offices and a large display of agricultural implements.

MASSACHUSETTS HORTICULTURAL COLLEGE NOTES.

A problem in carnation culture similar to the one given out on rose culture last term is to be given the



MICHELL'S Verbena Seed

Mammoth Fancy Strain

Cannot be excelled for its free flowering qualities, large size and purity of colors.

	Tr. pkt.	Oz.
Mammoth Fancy Blue.....	\$0.30	\$1.25
Mammoth Fancy Pink.....	.30	1.25
Mammoth Fancy Scarlet.....	.30	1.25
Mammoth Fancy Striped.....	.30	1.25
Mammoth Fancy White.....	.30	1.25
Mammoth Fancy Mixed.....	.30	1.00

Also all other Seasonable Seeds and supplies for the Florist. Send for Wholesale Catalogue.

HENRY F. MICHELL CO.
518 Market St., Philadelphia

SCARLET SAGE

We have harvested this Autumn a satisfactory crop of

SCARLET SAGE SEED

And offer of our own growing on Bloomsdale Farms

BONFIRE or CLARA BEDMAN.....at \$18.00 per pound

This Sage is fine strain and worth the price we ask. Terms:—Net 60 days, 2½ per cent. off 10, f. o. b. Bristol, Pa.

D. Landreth Seed Company BRISTOL, PA.

Bloomsdale Seed Farms, Established 1784.

"Seeds with a Lineage" All Varieties
Thoroughly tested at our trial grounds, Raynes Park, London, England. Send for Catalogue

CARTERS TESTED SEEDS, Inc., 166 Chamber of Commerce Bldg., Boston, Mass.

seniors next week. H. C. Lydiard, of Hartford, Conn., and M. R. Lawrence, of Falmouth, Mass., handed in exceptionally good papers on the rose problem last term.

The winter short course in Floriculture opened with a total enrollment of 21 students. Nearly 50 per cent. of the men have come from practical work in order to get a little of the training offered by the college. Theory and practice are both to be given. Last Saturday work in propagation and repotting of bedding plants was given. Next Saturday a study of greenhouse construction, including the parts and details of the green-

house. Ground plans and sections will constitute a part of the work.

The M. A. C. Florists' and Gardeners' Club Annual is well on its way toward completion. Over 40 per cent. of the necessary advertising space has already been subscribed to. At least 1,000 copies of the Annual will be distributed widely over the country gratis. The contents are to include articles on the history and development of the department, the future of the college man trained in floriculture, alumni in floriculture, etc. The whole Annual will be profusely illustrated, and the book will be of great value and help.

Dwarf Gladiolus

Per 1000

Cardinalis Blushing Bride.....	\$5.00
" Crimson Queen.....	4.50
" Queen Wilhelmina.....	5.00
" Mixed.....	3.00
Colvillei Rubra.....	4.00
" Alba "The Bride".....	5.00
" Rosea.....	4.50
Ramosus Ne Plus Ultra.....	6.00

Lilium Longiflorum Giganteum

(Black Stem)

7 to 9 in.....	\$30.00 per 1000
All 8 in. selected.....	35.00 "

Selected strains of Ageratum, Alyssum, Aster, Begonia Erfordi, Calendula Meteor, Prince of Orange, Candytuft, Celosia, Centaurea, Cobaea scandens, Cosmos, Gypsophila, Lobelia, Petunia, and Verbena. Special prices on the above on application.

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(personally selected strains)

WHOLESALE ONLY

Write for Special Prices, Spot or
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BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT.

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Write For Our Low Prices

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KEYSTONE SNAPDRAGON

Best Winter Flowering Pink Snapdragons on
the market. Per pkt., \$1.00; 6 pkts. for \$5.00.

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PHILADELPHIA, PA.

My new Price List of
WINTER-ORCHID-FLOWERING SWEET
PEA SEED

Has been mailed. If you have not received
a copy, send me postal. Part of new crop
will be ready early in July.

ANT. C. ZVOLANEK

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and SEED SERVICE

FOR SALE BY

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LILIUM GIGANTEUM

NEW CROP NOW READY.

	Per 100	Per 1000
7 to 9 in. (300 bulbs to case)...	\$5.50	\$50.00
8 to 9 in. (250 bulbs to case)...	7.00	65.00
8 to 10 in. (225 bulbs to case)...	9.00	80.00
9 to 10 in. (200 bulbs to case)...	10.00	95.00

A. HENDERSON & CO.

211 N. State St., Chicago.

ROMAN J. IRWIN

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LILIUM FORMOSUM

8/11, 225 to a case.....	\$8.00 per 1000
9/10, 200 to a case.....	\$5.00 per 1000
11/13, 100 to a case.....	15.00 per case
LILIUM FORMOSUM—Black Stem	
8/10, 200 to a case.....	\$8.00 per 1000
9/10, 180 to a case.....	90.00 per 1000
11/13, 100 to a case.....	16.00 per case

Write for Complete Stock Circular.

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Reselected Strains in Seeds.

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Horticultural Sundries

166 W. 23rd St., NEW YORK

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BEET, CARROT, PARSNIP, RADISH and
GARDEN PEA SEED in variety; also other
items of the short crop of this past season,
as well as a full line of Garden Seeds, will
be quoted you upon application to

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COTTAGE

A Sport of Mrs. C. W. Ward, of

A Few Reasons Why You Want It:

It has the habit and growth of Ward.
It is the best keeper and shipper of all.
It is unsurpassed in quality of bloom.
It will not fade in bright weather.
Its color sells it on sight.
It is fine under artificial light.

Cottage Maid is a Market Carnation.

The public wants it.

YOU NEED IT!



CARNATION

Price: \$12.00 per 100; \$100.00 per 1000

COTTAGE GARDENS

Queens,

COTTAGE MAID

A Pleasing Shade of Flesh Pink



COTTAGE MAID

over 1000. February Delivery.

O., INC., (Originators)
New York

What a Prominent New York Retailer thinks of it:

New York, Dec. 29, 1916

Mr. Joseph A. Millang,
55 West 26th Street, New York.

Dear Mr. Millang:--

You will be glad to learn that our carnations for Christmas were the finest you have ever sent us and sold splendidly.

Cottage Maids were especially asked for and we think it a splendid carnation with a great future.

Sincerely yours,

(Signed) J. H. SMALL & SONS.

This letter speaks for itself. It bears out our frequent assertion that the final judge of a flower, *the public*, has put its stamp of approval on COTTAGE MAID.

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611 FIFTH AVENUE
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Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

*Cost of Cabling Foreign Deliveries
Must be prepaid*

Reference or cash must accompany all orders from unknown correspondents.

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Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address Dardsflor.

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Deliver orders from any part of the country to
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Or OUT-GOING STEAMERS

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Dunkirk, N. Y.—Charles Gillson.

Hinton, W. Va.—Mrs. R. E. Parker.

Lockport, N. Y.—Fred G. Lewis,
Main street.

Portland, Ore.—O. R. Moeller, 326
Alder street.

Portland, Ore.—Lelane Flower Shop,
opposite Postoffice.

Newark, N. J.—Ivy Flower Shop,
454 South Orange avenue.

Hutchinson, Kan.—J. Ralph Souder,
succeeding Kline Flower Shop.

DURING RECESS

Boston Bowlers.

Scores January 4, 1917:

Penn	435	382	451	1268
N. E.	454	384	467	1305
Robinson	417	433	418	1268
Waban	483	416	424	1335
Flower Market	438	474	457	1369
Carbone	457	396	463	1316
Snyder	416	373	452	1241
Mc & Mc	435	414	421	1270
Flower Ex.	419	446	433	1318
Galvin	481	432	564	1378

North Chicago League

Scores January 4:

J. Huebner	153	167	166
Price	200	198	179
McKeown	222	156	234
Eniweek	202	206	160
Olsen	171	214	212
	948	941	951

St. Louis—Ostertag Bros. have the decorations for the inaugural of Gov. Fred Gardener. Smilax, laurel and Russell roses will be the feature. Ostertag Bros. chartered a special car for Jefferson City to carry the decorators and their supplies. Spring Flower Show is daily getting into better shape and the guarantee fund is increasing.

The Windler Wholesale Floral Co. at its annual meeting Tuesday, Jan. 2, 1917, had their election of officers as follows: Frank A. Windler, pres.; E. E. Windler, vice-pres.; A. W. Gumz, sec. and treas.

Send Telegraph, Telephone or Mail orders for florist service in this vicinity to

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853 SO. OLIVE ST.

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Every Order sure to receive prompt and careful attention.

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High Grade Cut Blooms**

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At your service to deliver Flowers or Designs on Order by Telegraph or otherwise. Prompt Reliable Service.

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We Guarantee Satisfaction

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NEW YORK 561 Fifth Ave.
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BOSTON 1 Park Street
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Deliveries to Steamers and all Eastern Ports

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Will take good care of your orders
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F. H. KRAMER
Auto delivery of Designs and Flowers to
any address in Washington.
Stock and Work First Class

Orders Filled Day or Night for
CLEVELAND
and State of Ohio
Complete Stock. Regular discount to Trade.
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1896 W. 25th St., Cleveland, O.
Members Florists' Telegraph Delivery Ass'n.

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735 Euclid Avenue
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Flowers of Every Kind in Season

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FLORISTS
Telephones 1501 and L 1532.
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440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
Stock and prompt deliveries in BUFFALO,
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK
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HIGH GRADE PLANTS
For Retail Stores a Specialty
ASK FOR LIST

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WORCESTER, MASS.
Randall's Flower Shop
HARRY L. RANDALL, Proprietor.
Mention Florists' Telegraph Association

IN THE HEART OF THE COMMONWEALTH

Centrally Located for Deliveries in All Parts of New England.

H. F. A. LANGE

125,000 Sq. Ft. of Glass
WORCESTER, MASS.

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to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

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Lane.

Albany, N. Y.—H. G. Eyres, 106 State
St.

Albany, N. Y.—The Rosery, 23 Steuben
St.

Albany, N. Y.—William C. Gloeckner, 97
State St.

Boston—Thos. F. Galvin, 1 Park St.

Boston—Penn the Florist, 124 Tremont
St.

Buffalo, N. Y.—S. A. Anderson, 440 Main
St.

Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan
Ave. and 31st St.

Cleveland, O.—J. M. Gasser Co., Euclid
Ave.

Cleveland, O.—Adam Graham & Sons,
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Cleveland, O.—Knoble Bros., 1836 W. 25th
St.

Cleveland, O.—The Smith & Fetters Co.,
735 Euclid Ave.

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Broadway.

Detroit, Mich.—J. Breitmeyer's Sons,
corner Broadway and Gratiot Ave.

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Kansas City, Mo.—Samuel Murray, 1017
Grand Ave.

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New York—J. H. Small & Sons, 505 Mad-
ison Ave., at 52d St.

New York—David Clarke's Sons, 2139-
2141 Broadway.

New York—Alex. McConnell, 611 5th Ave.

New York—Young & Nugent, 42 W. 28th.

New York—A. T. Bunyard, 413 Madison
Ave., at 48th St.

New York—Dards, N. E. corner 44th St.
and Madison Ave.

New York—Max Schling, 22 W. 59th St.

New York—G. E. M. Stumpp, 761 Fifth
Ave.

New York—Thos. F. Galvin, Fifth Ave.,
at 48th St.

Norwich, Conn.—Reuter's.

Omaha, Neb.—Hess & Swoboda, 1415
Farnum St.

Passaic, N. J.—Edward Seery.

Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave., N.

St. Louis, Mo.—Fred C. Weber, 4326-28
Olive St.

St. Paul, Minn.—Holm & Olson, Inc.

Tarrytown-on-Hudson, N. Y.—F. R. Pier-
son Co.

Toronto, Can.—J. H. Dunlop, 8-10 West
Adelaide St.

Washington, D. C.—Gude Bros., 1214 F
St.

Washington, D. C.—F. H. Kramer, 915
F St., N. W.

Washington, D. C.—George H. Cooke,
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Westerly, R. I.—Reuter's.

Worcester, Mass.—H. F. A. Lange.

Worcester, Mass.—Randall's Flower Shop,
3 Pleasant St.

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New London and Norwich, Conn.
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We cover the territory between
New Haven and Providence
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The Far-Famed Flowers of
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8-10 West Adelaide St. - TORONTO, ONT.
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Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER
106 STATE STREET, ALBANY, N. Y.

"THE HOME OF FLOWERS"

The largest cut flower store in America.
Orders for the TWIN CITIES and for all
Northwestern points given prompt at-
tention

HOLM & OLSON, Incorporated
ST. PAUL, MINN.



KERR ORDERS FOR TEXA
HOUSTON, TEXAS
The Florist Member F.T.D. Association

Obituary

Asa L. Brown.

Asa L. Brown, for many years a well-known and highly-esteemed florist of Kearny, N. J., died on December 21 aged 68 years. A widow and one son are left.

Mrs. Paul Huebner.

Mrs. Huebner wife of Paul Huebner, landscape gardener for the Reading R. R. system who was reported as being seriously ill with double pneumonia in our last issue, died on Jan. 4.

John M. Elser.

John M. Elser, 83 years old, known as the first forester in Pittsfield, Mass., who planted most of the elms which line the city streets, and selected the famous Roosevelt elm, planted by the then President in 1902 in the yard of former Senator Crane's home, died of heart trouble on January 8. He and Mrs. Elser were at one time awarded a prize for having the largest family in New England, 17 children. Thirteen of the children survive. There are nearly one hundred grandchildren and ten great-grandchildren.

Hamlin Johnson.

Hamlin Johnson, for many years proprietor of a seed store in Providence, R. I., died Sunday noon, January 7, at his home in Seekonk, where he had lived for more than half a century. He was in his 92nd year. Although advanced in years, Mr. Johnson retained his faculties, with the exception of hearing, to a remarkable degree, and up to within a year was accustomed to make daily trips to the city. Several months ago he began to fail rapidly, and the end was not unexpected.

Mr. Johnson was born in Brooklyn, Conn., and came to Providence when a young man. He was a bookkeeper for Oliver Johnson for a number of years. In 1879 he opened a seed and farming implement store at 6 Exchange place, which he carried on until 1890. About this time his wife died and he sold the business and retired to his place in Seekonk, where he had lived for 52 years. He carried on a greenhouse business at his Seekonk home for a number of years.

Mrs. Julius P. Siebold.

Anna Theresa Siebold, wife of Julius P. Siebold, Lancaster Pa., died on Tuesday, Jan. 2d, after an illness of five days from pneumonia. She was born in Germany, Aug. 29th, 1866, being 51 years of age at the time of her demise. Her father brought her to this country when she was fifteen years of age and for many years they lived in Missouri where she married Mr. Siebold in 1885. They moved to Lancaster in 1888 and have resided in this city since that time. Mr. Siebold engaged in the growing of flowers shortly thereafter and has established a large shipping business with the aid of his wife, whom he will miss very much. Beside the husband, she is survived by one son, Frank, and a number of brothers and sisters in Germany.

She was a member of The Advent Lutheran church and an active worker in all church activities. The funeral services were held from the church and interment made in the Riverview Burial Park. The Florists' Club attended the funeral and sent an emblem expressive of their sympathy.

A. M. H.

ABOUT EXPRESS CHARGES.

Mr. Editor:

I have been interested in your editorial in issue of January 6th, "Are you paying too much?"

Big corporations are more insistent on system and get results. Too many florists use cards printed "cut flowers" on bulbs and plant shipments hence same are billed rightly as "cut flowers." If the consignee takes the matter up with his agent the correction is made. We have no such trouble. Do not cuss the agent or the company, but write the consignor to bill his shipments properly. When plants or bulbs—so bill them; if cut flowers—do likewise. Very few florists or growers seem to know or care about how stock is billed, yet there is a severe law covering misbilling of express or freight. We must watch inbound express because of "cut flower" billing of bulbs, but have no trouble in corrections. We always mark outbound shipments as to contents and personally call the agents' attention to same and ask as to newer rules or regulations now and then, so have no trouble. Florists and growers—get busy—bill right. The transportation companies are building 57-story buildings because they do business on sound economic methods (plus) while the average florist usually sells at a loss, but saves money by being at it 365 days a year. If the florist will sharpen his pencil, brush up his mind and figure what it costs to produce certain items he will find many places where he is selling at decidedly less than cost. Usually the average florist who is working 365 days a year would make more by day work and not have the endless worry and care to put up with. The present abnormal conditions will bring this home to many fellow florists. Everything needed away up, flowers as an average at "hard times" prices with most florists (?) I admit the express service recently was very abnormal causing no end of loss and worry but we are helpless under present conditions. "Stale Christmas flowers." Emphasize this, every wholesaler should simply refuse to handle "pickled stock." The quickest way to drive people to buy jewelry, etc., at Christmas is to deliver stock that will not—cannot keep and satisfy—and it hurts through the year. When we must buy flowers to meet unusual demands, we refuse to accept "pickled stock." Our reputation cannot be maintained with stock fit only for the ash can. With the market as bare and prices high as previous to Christmas there is no reason why a grower should have sent in ash can quality. This has been the condition for some years. If one must buy just previous to Christmas the market is bare, orders cannot be filled, because of the policy of unbusinesslike growers.

C. BETSCHER.

ADVERTISING GENIUS.

Penn the Florist, recognized as a pioneer in clever retail florist trade advertising had the following advertisement in a large space in connection with a picture of an azalea in bloom in an issue of the Boston Post this week.

A Suggestion to Flower Lovers

Clip this out and save for future reference

THE CARE OF POTTED PLANTS

The cool days of winter are cheered by pretty flowering and foliage plants; but while they are particularly fascinating at this time, it is during the coldest days that the plants require the most attention.

Never allow them to stand in front of an open window or in a cold draught. The intense dry heat in homes on extremely cold days will dry out the soil and wither or permanently injure most plants in a few days.

The pots of plants should be immersed in a pail of water for several minutes on very cold days, while in milder weather, on alternate days, or even twice a week, will suffice to keep the plants in a healthy condition, with the exception of forced plants, such as azaleas or lilacs; these should be thoroughly watered every day.

It will be noticed that Mr. Penn has quoted no prices and made no solicitations for business. Yet he regards it as a good trade investment, and it has been so commented on by many whose judgment is regarded as good in such matters. No doubt, many a reader of the Boston Post will feel grateful to the kind florist who has taken the trouble to advise them as to the proper care of their plants, and when they wish to purchase such things it is easy to see who they will first think of. As with the physician, the confidence of the public is the best asset the florist can have.

Plant Propagation, Greenhouse and Nursery Practice

By M. G. KAINS

We have had many inquiries from time to time for a reliable and up-to-date book on plant propagation, but were always at a loss to find any publication that we could recommend. The subject has been dealt with in fragmentary manner only in books that have come to our notice. So it is well that this new work has been issued, especially as it is both comprehensive and practical, and it should meet with a ready sale among plantmen, nurserymen and gardeners. There are nineteen chapters covering in detail topics of germination and longevity of seeds, propagating by buds, layering, cuttings, grafting, etc., fruit tree stocks, clones, etc., and there are eight pages of condensed cultural instructions in tabulated form, covering annuals and perennials from seed, woody plants, evergreens, vines, bulbs and tubers, greenhouse and house plants, ferns, palms, water plants, orchids and cacti. The illustrations are numerous, comprising 213 figures and half-tone plates. There are 322 pages well bound and on heavy paper, teeming with helpful information. It is a book which no cultivator can afford to do without. It is worth many times its price. Copies can be supplied from the office of HORTICULTURE at publisher's price, \$1.50.

Horticulture Publishing Co.

147 SUMMER ST., BOSTON, MASS.

HAPPY NEW YEAR

We extend to all who read **Horticulture** our best wishes for happiness and prosperity. Don't forget that when you stock up on Bayersdorfer & Co.'s goods you are getting

THE BEST IN THE WORLD

BASKETS For Plants BASKETS For Flowers BASKETS

In Endless Variety, Home Manufacture and Imported. Everything in Florists' Requisites.

Stock up now and have the goods to show customers. Send for prices and see how much you can do with a little money when you go straight to headquarters—**THE FLORISTS' SUPPLY HOUSE OF AMERICA.**

H. BAYERSDORFER & CO.

Manufacturers and
Importers

1129 Arch Street, PHILADELPHIA, PA.

Write for
Catalogue

NEWS ITEMS FROM EVERYWHERE

PITTSBURGH.

Norman S. Grubbs is spending a month at State College in attendance at the annual conference of the Pennsylvania county agriculturists.

Frank Smoler has re-entered the employ of Walter A. Faulk of the North Side, following an all summer and autumn service on the Mexican border.

Francis M. Smith, who has been in indifferent health for some time past, has resigned his position as salesman for G. P. Weaklin & Co. and joined his family at Salamanca, New York.

The Fort Pitt Floral Company in the Fort Pitt Hotel, is the innovation of Orville Crisman, president of the Ray J. Daschbach Company, Inc. Miss Roxana McAfee is in charge of the department.

Milton Griffith, proprietor of Crall's Flower Shop of Monessen, has recently purchased the business of C. W. Kinder in the neighboring town of Donora, which he will conduct under the name of Griffith's Flower Shop.

Frank Misoclek has resigned from his position of first assistant to Thomas Edward Tyler on the East End estate of Charles Dickey Armstrong and entered the employ of a commercial place in New Jersey.

After a week's visit with David Fraser of Henry Clay Frick's Homewood estate, "Clayton," George Wyness returned east last Monday. Mr. Wyness is now superintendent of the Frick's summer home at Pride's Crossing, Mass.

Owing to the sale of the old Carr estate at Point Breeze, J. F. Zimmerman is looking up a new location for

his floral and landscape business. Mr. Zimmerman, who had charge of the grounds and greenhouse for some years prior to the death of Mr. and Mrs. Carr, remained on later at the request of Mrs. Carr, meanwhile also conducting a successful business of his own.

Geza Robert Stopko of New Brunswick, N. J., has become manager of the Highland Floral Co. of which James Watt is proprietor. Mr. Stopko, who is a native of Kassa, Hungary, and a graduate of the gardeners' college in Buda Pest, came to America six years ago. Meanwhile he has been the landscape gardener on the magnificent estate of Alfred L. DuPont in Wilmington, Delaware, later receiving commercial experience in several places. Mr. Watt, who is private secretary for Alexander R. Peacock, a year ago leased the latter's private conservatory and growing houses which are among the best equipped in the city.

WASHINGTON, D. C.

The January meeting of the Florists' Club of Washington, D. C., was devoted almost entirely to a discussion of matters pending in the Post Office Appropriation Bill.

The large plate glass window on the P street side of the Dupont Flower Shop was splintered by the automobile of Baron E. Akerheim, of the Swedish legation. A colored girl was knocked down and had to be taken to the hospital.

George E. Anderson, of the Hubbard estate, reports the conclusion of negotiations with A. N. Pierson, Inc., as a result of which that firm will assume the propagation of the new rose brought out by Mr. Anderson which he has named Mrs. Charles Bell. A description of the rose appeared in a recent issue of **HORTICULTURE**.

CHICAGO.

The closing of the year's books at the J. A. Budlong store calls Mrs. Schupp to duty again.

Another new store is the Wittmer's Floral Shop, which was opened late in the fall at Jackson and Kedzie. The greenhouses are at Winnemac, Ind.

Miss Charlotte Paradise has received a letter from Miss Corinne Pearson, who is on her way to visit her parents in Sweden. She evidently is not enjoying the voyage for she writes that she will never leave the U. S. again. Miss Pearson came over when but twelve years old and this is her first visit home. She was in A. L. Vaughan's office for several years.

In carrying out the plan of the "City-Beautiful" the widening of 12th street is under way. Mrs. O. Kreitling, who with her late husband conducted a flower store at Blue Island and 12th street for 24 years has been obliged to sell and is removing to 317 S. Cicero avenue. The new location is a good business street and ten years ago was an almost unbroken prairie, and near which Frank Oechslin bought his first lots.

The north side has two new retail stores, both of which were opened just in time to get a share of the Christmas trade. One is known as the Lakeside Flower Shop, at 4700 Sheridan Road. The proprietors are A. Hall and W. H. Waddington, both former employees of A. Lange. The other store is only a quarter of a mile from this one, at 4739 Broadway and is called the Fluer de Lis. The year just closed has been so generally successful, that it would not be unexpected if 1917 should see many new retail flower stores in Chicago.

You cannot afford to be without

PUSSY WILLOW

50 and 75c. per bunch

It will keep for weeks and all the good stores have it on display every day.

THE LEO NIESSEN CO.

Wholesale Florists

1201-05 Race Street,

PHILADELPHIA, PA.

DAVID WELCH

EDWARD J. WELCH

WELCH'S

Wholesale & Commission Florists

FLORISTS' SUPPLIES

280-282 Devonshire Street,

BOSTON, MASS.

Tel. Fort Hill 1964-1965

EDWARD REID WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.

CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

REED & KELLER 122 West 25th St., New York Florists' Supplies

We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$1.85. 50,000...\$8.00. Sample free.
For sale by dealers.

E.G. HILL CO.

Wholesale Florists
RICHMOND, IND.

Please mention Horticulture when writing.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy, Fancy Fern Our Specialty

264 RANDOLPH ST., DETROIT, MICH.

The House for Quality and Service

ZECH & MANN

We are Wholesale Florists Doing
a Strictly Wholesale Business

30 East Randolph Street, CHICAGO



POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut Flower Market

Daily consignments from leading growers Full line of Florists' Supplies Write for quotations before ordering elsewhere

262 B DEVONSHIRE ST., BOSTON, MASS.
Telephone, Main 6267-6268

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON Jan. 11		ST. LOUIS Jan. 8		PHILA. Jan. 1	
Roses						
Am. Beauty, Special.....	40.00	to 60.00	40.00	to 50.00	40.00	to 50.00
" " Fancy and Extra.....	15.00	to 30.00	20.00	to 30.00	20.00	to 35.00
" " No. 1 and culls.....	4.00	to 10.00	3.00	to 10.00	5.00	to 12.50
Russell, Euler, Mock.....	4.00	to 20.00	5.00	to 12.00	5.00	to 30.00
Hadley.....	6.00	to 20.00	5.00	to 10.00	5.00	to 15.00
Arenberg, Hoosier Beauty.....	4.00	to 10.00	.....	.....	4.00	to 12.50
Ward.....	8.00	to 15.00	4.00	to 10.00	3.00	to 10.00
Killarney, Radiance, Taft.....	4.00	to 12.00	2.00	to 6.00	3.00	to 12.00
Ophelia, Sunburst, Hillingdon.....	8.00	to 15.00	5.00	to 8.00	4.00	to 12.00
Kay.....	4.00	to 15.00	.....	.....	8.00	to 25.00
Carnations	3.00	to 5.00	1.00	to 2.00	2.00	to 6.00
Cattleyas	35.00	to 75.00	.....	to 50.00	35.00	to 75.00
Dendrobium formosum.....	.....	to 50.00	.....	.....	50.00	to 60.00
Lilies, Longiflorum	8.00	to 12.00	10.00	to 12.00	10.00	to 12.00
Lilies, Speciosum	8.00	to 12.00	.....	.....	.....	.....
Callas	5.00	to 12.00	10.00	to 12.00	12.50	to 15.00
Lily of the Valley	4.00	to 6.00	5.00	to 6.00	3.00	to 6.00
Snapdragon	2.00	to 10.00	.....	.....	3.00	to 16.00
Daffodils	4.00	to 6.00	.....	.....	5.00	to 6.00
Narcissi, Paper White	2.00	to 3.00	.....	to 2.00	2.00	to 3.00
Roman Hyacinths	3.00	to 4.00	.....	.....	.....	.....
Freesia	4.00	to 6.00	.....	.....	3.00	to 5.00
Tulips.....	.....	.....	.....	.....	.....	.....
Calendulas	2.00	to 4.00	.....	.....	3.00	to 5.00
Sweet Peas	1.00	to 1.50	.40	to 1.00	.40	to 3.00
Violets.....	.75	to 1.00	.....	to .40	.25	to 1.00
Marguerites.....	.50	to 2.00	.....	.....	1.00	to 3.00
Gardenias	20.00	to 30.00	.....	.....	25.00	to 40.00
Adiantum.....	.....	to 1.00	.....	to 1.00	1.00	to 1.50
Smilax	12.00	to 20.00	.....	to 15.00	15.00	to 20.00
Asparagus Plumosus, & Spreng. (100 Bchs.).....	25.00	to 35.00	25.00	to 35.00	25.00	to 50.00

WILLIAM F. KASTING Co.

Wholesale Florists

568-570 WASHINGTON STREET - BUFFALO, N. Y.

J.A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER of

CUT FLOWERS

In writing to Advertisers kindly mention Horticulture



GARDENIAS

Splendid quality; in fact, better than at any time this season. Orders of any size can be taken care of.

Special \$5.00 per dozen.

Fancy \$4.00 per dozen.

Extra \$3.00 per dozen.

S. S. PENNOCK-MEEHAN CO.

THE Wholesale Florists of PHILADELPHIA

NEW YORK
117 W. 28th St.

PHILADELPHIA
1608-1620 Ludlow St.

BALTIMORE
Franklin & St. Paul Sts.

WASHINGTON
1216 H St., N. W.

Flower Market Reports

BOSTON There has been no pronounced change in market conditions during the past week. A high standard of quality prevails in all lines of stocks but the supply is weak. The trade has quieted down considerably, as was expected, but there are no signs of a slump or protracted calm. White roses and carnations are slowly regaining popularity. A slight falling off on red and other colored stock counter-balances this however. Excellent prices are obtained by all concerned, grower, wholesaler and retailer. Daffodils are a shade more plentiful and are in great demand. Single violets continue to move along at a good rate. Stevia is coming in well. Lily of the valley enjoys no great call and is fairly steady at \$6.00. Callas and lilies are being favored by many buyers and are selling at top prices.

BUFFALO The ending of the old year was satisfactory to all. Up to Friday there were restful days with stock scarce and business light, but the balance of the week and New Year's day were busy ones. The present week also has proved satisfactory, there being a slight flurry in wedding stock and heavy demand for floral work which keeps the market cleaned up daily. Good carnations are still on the short side. Roses are in fair supply and there is plenty of lily of the valley, also violets, narcissus and some good mignonette and peas which sell quickly.

CHICAGO The after-holiday business has settled down to the inevitable. Such quantities of stock were hurried on for that time that the cuts of roses are much smaller and it does not come amiss that the demand is lighter, as practically all is used up each day. The same condition exists with American Beauties. The demand is fully up to the supply and prices are not being lowered. Carnations are the weak spot in the market. There are quantities of them and very low of-

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI Jan. 8		CHICAGO Jan. 8		BUFFALO Jan. 8		PITTSBURG Jan. 8	
Roses								
Am. Beauty, Special.....	40.00	to 50.00	40.00	to 50.00	.....	to 50.00	50.00	to 75.00
" " Fancy and Extra.....	25.00	to 35.00	20.00	to 40.00	25.00	to 35.00	30.00	to 40.00
" " No. 1 and culls.....	8.00	to 20.00	5.00	to 10.00	4.00	to 6.00	8.00	to 25.00
Russell, Euler, Mock.....	.....	to	5.00	to 25.00	8.00	to 15.00	8.00	to 20.00
Hadley.....	.....	to .....	.....	to	5.00	to 15.00	.....	to
Arenberg, Hoosier Beauty.....	6.00	to 10.00	.....	to	6.00	to 25.00	8.00	to 20.00
Ward.....	4.00	to 8.00	5.00	to 10.00	4.00	to 6.00	6.00	to 15.00
Killarney, Radiance, Taft.....	4.00	to 8.00	3.00	to 10.00	4.00	to 15.00	4.00	to 15.00
Ophelia, Sunburst, Hillingdon.....	6.00	to 10.00	5.00	to 10.00	4.00	to 12.00	8.00	to 15.00
Kay.....	.....	to .....	.....	to	10.00	to 15.00	.....	to
Carnations	2.00	to 3.00	1.00	to 3.00	3.00	to 5.00	2.00	to 4.00
Cattleyas	50.00	to 75.00	60.00	to 75.00	40.00	to 50.00	60.00	to 75.00
Dendrobium formosum.....	.....	to .....	.....	to .....	.....	to	40.00	to 50.00
Lilies, Longiflorum	10.00	to 12.50	5.00	to 10.00	10.00	to 12.00	.....	to 15.00
Lilies, Speciosum	6.00	to 10.00	.....	to	4.00	to 6.00	.....	to
Callas	8.00	to 10.00	.....	to	8.00	to 12.00	.....	to
Lily of the Valley.....	.....	to 7.00	5.00	to 6.00	6.00	to 7.00	.....	to 6.00
Snapdragon	4.00	to 6.00	6.00	to 10.00	5.00	to 10.00	4.00	to 10.00
Daffodils.....	.....	to	3.00	to 4.00	5.00	to 6.00	4.00	to 6.00
Narcissi Paper White	2.00	to 3.00	2.00	to 3.00	2.00	to 3.00	3.00	to 4.00
Roman Hyacinths	3.00	to 4.00	2.00	to 3.00	2.00	to 3.00	3.00	to 4.00
Freesia	3.00	to 4.00	5.00	to 6.00	3.00	to 5.00	4.00	to 6.00
Tulips.....	.....	to	3.00	to 4.00	3.00	to 5.00	4.00	to 6.00
Calendulas	3.00	to 4.00	2.00	to 4.00	3.00	to 4.00	2.00	to 6.00
Sweet Peas.....	.75	to 1.50	.75	to 2.00	1.00	to 2.00	.50	to 3.00
Violets.....	.75	to 1.00	.50	to 1.00	.60	to .75	.50	to 1.25
Marguerites.....	.75	to 1.00	.75	to 1.00	1.00	to 2.00	1.00	to 3.00
Gardenias.....	.....	to	25.00	to 30.00	15.00	to 25.00	.....	to
Adiantum.....	.....	to 1.00	.....	to 1.00	1.00	to 1.25	1.00	to 1.25
Smilax	15.00	to 20.00	10.00	to 20.00	15.00	to 18.00	15.00	to 20.00
Asparagus Plu. & Spren. (100 Bhs.)	25.00	to 50.00	25.00	to 50.00	25.00	to 50.00	30.00	to 50.00

fers are made by the wholesalers to move them in quantity but to no avail and they stand and go to sleep by the thousands. And what makes the matter worse for the grower is the fact that side by side with them stand the pails of daffodils and tulips that will remain fresh so much longer. Violets are a disappointment to many again this season. The New York stock arrives too often in poor condition and the demand for home grown ones, no matter how good, is never what it used to be. Lilies are quite plentiful. Sweet peas run from the small poorly grown ones to the splendid butterfly varieties and good stock moves well. The first freesia came a week ago. Large fine mignonette is seen. Tulips in white, pink and yellow are offered and sell fairly well. Some white and coral bouvardia in both long and short stems is now coming. Paper white narcissi are much in evidence and not all selling.

Prices have taken a decided drop, the demand for stock is steady and fairly active, but the sup-

ply has become so large that it is impossible to clean up all receipts. Roses and carnations are very plentiful and the same is true of lilies. Paper white narcissus receipts have become heavier since the holidays. The cut of Roman hyacinths and freesia is sufficient. Sweet peas are in a heavy supply and when good find a fairly good market. Wallflower, primroses and forget-me-not may be had in fair quantities. Other offerings include snapdragons, callas, some rubrum lilies and calendulas.

NEW YORK Normal conditions for the season prevail in the wholesale flower district, the usual large variety of standard mid-winter goods being received in ample quantity, also always a few new things from progressive growers, with prices fluctuating according to weather and demand. Stock generally is of excellent quality. Roses of all sorts have never been better. Carnations vary, some stocks being inferior and there is not much snap to the sale of these flowers. Bulbous

(Continued on page 57)

H. E. FROMENT

Wholesale Commission Florist
Choice Cut Flowers

New Address, 143 West 28th St., NEW YORK

Telephones: 2206, 2201, Madison Square.

HENTZ & NASH, Inc.

Wholesale Commission Florists

55 and 57 West 26th Street

Telephone No. 755
Farragut New York

WM. P. FORD

Wholesale Florist

107 W. 28th Street, NEW YORK

Telephone 5335, Farragut.

Call and inspect the Best Establishment
in the Wholesale Flower District.

GEO. C. SIEBRECHT

WHOLESALE FLORIST

109 WEST 28th ST

CONSIGNMENTS SOLICITED

PHONE 608 / FARRAGUT NEW YORK
609

JOHN YOUNG & CO.

WHOLESALE FLORISTS

53 WEST 28th STREET NEW YORK CITY

Consignments Solicited

Phone 7362 Madison Square

THE KERVAN COMPANY

Ferns, Mosses, Wild Smilax, Galax,
Leucothoe, Palmetto, Cycas, both fresh
cut and prepared.

Laurel, Hemlock, all Decorative Evergreens.

Tel. 1583 / Mad. Sq. 119 W. 28 St., New York
5883

WILLIAM H. KUEBLER

Brooklyn's Foremost and Best

WHOLESALE COMMISSION HOUSE

A First Class Market for all CUT FLOWERS

28 Willoughby St., Brooklyn, N. Y.

M. C. FORD

121 West 28th St., NEW YORK

FINE ROSES, FANCY CARNATIONS

A Full Line of ALL CUT FLOWERS.
Telephone 3870 Farragut.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N. Y.

RIEDEL & MEYER, Inc.

Wholesale Commission

READY FOR BUSINESS

49 WEST 28th ST. NEW YORK.

P. J. SMITH

WHOLESALE COMMISSION FLORIST SELLING AGENT FOR
LARGEST GROWERS

A full line of Choice Cut Flower Stock for all purposes.

TELEPHONE 2281 / 3089 FARRAGUT 131 West 28th St., NEW YORK CITY

ALBANY CUT FLOWER EXCHANGE

THOMAS TRACEY, Mgr. 611 Broadway, ALBANY, N. Y.

WHOLESALE ONLY

SAVE TIME AND MONEY BY SENDING YOUR ORDERS TO US

Prices Right. Consignments Solicited. Telephone Connection

Centrally Located, The Hub of the Flower Market Section

CHARLES MILLANG

Wholesale Florist

55 and 57 W. 26th Street, - - NEW YORK

Telephone 2483 Farragut

ORCHIDS - - GARDENIAS

HEADQUARTERS for the entire output of the

BEECHWOOD HEIGHTS NURSERIES, of Bound Brook, N. J.

PAUL MECONI — Wholesale Florist — NEW YORK

Telephone Nos. 3864 and 8364 Madison Square

57 WEST 26th STREET

BADGLEY & BISHOP, Inc.

WHOLESALE FLORISTS, 34 West 28th St., New York

Telephones 1664 / 2991 Madison Square

CONSIGNMENTS SOLICITED

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS

	Last Half of Week ending Jan. 6 1917		First Half of Week beginning Jan. 8 1917	
American Beauty, Special	25.00	to 50.00	40.00	to 60.00
" " Fancy and Extra	10.00	to 20.00	20.00	to 30.00
" " No. 1 and culls	4.00	to 8.00	4.00	to 15.00
Russell, Euler, Mock	5.00	to 20.00	4.00	to 15.00
Hadley	5.00	to 35.00	6.00	to 25.00
Arenberg, Hoosier Beauty	4.00	to 15.00	4.00	to 15.00
Ward	5.00	to 12.00	4.00	to 12.00
Killarney, Radiance, Taft	5.00	to 10.00	4.00	to 10.00
Ophelia, Sunburst, Hillingdon	6.00	to 15.00	6.00	to 15.00
Kay	5.00	to 12.00	4.00	to 12.00
Carnations	2.00	to 6.00	2.00	to 4.00

WALTER F. SHERIDAN

Wholesale Commission Dealer in

CHOICE CUT FLOWERS

133 West 28th Street, New York

Telephone—3532-3533 Madison Square

WE ARE WHOLESALE FLORISTS

We handle every variety of cut flowers.
We have 22 years' experience behind us,
and we do not expect a gold medal for doing
our full duty by our consignors and
customers. You cannot go very far wrong
when dealing with us.

GUTTMAN & RAYNOR, Inc.

101 West 28th Street, NEW YORK

Phones 2036, 2037, 558 Farragut

Frank H. Traendly

Charles Schenck

TRAENDLY & SCHENCK

Wholesale Florists

436 6th Avenue, Between 26th and 27th Sts., New York

Telephones: 797, 798, 799 Farragut

Consignments Solicited

WALTER R. SIEBRECHT CO.

Incorporated

Wholesale Commission Florists

Orchids, Gardenias and Many Unusual
Flowers of Quality

114 West 28th Street
NEW YORK

**HENRY M. ROBINSON CO. OF NEW YORK
WHOLESALE FLORISTS**

55-57 West 26th Street

Telephones, 13—8510 Madison Square

Consignments Solicited

MAURICE L. GLASS, Treasurer

Flower Market Reports

(Continued from page 55)

stock is good and the receipts are rapidly increasing. There has been a little scarcity in asparagus. Cattleyas vary greatly in size and quality and prices are in accordance.

Business has continued pretty good and all hands seem to be fairly well satisfied. In roses the Russell still leads the procession as the best seller. American Beauty is in good form with prices a little easier. Carnations are of excellent quality and as the supplies are falling off a little on account of the dull weather of the past ten days, prices show a tendency to harden up a little. Lily of the valley moves rather sluggishly, probably on account of the high price. No doubt, many retailers use the sweet pea often as these are fine now and moderate in price. Cattleyas are in good supply and demand rather sluggish. Gardenias are now very good and are quite a feature in the market at prices within the reach of all. Lilies have eased a little in price, but clean up very nicely and there is no sign, so far, of their going below normal. The trumpet-major daffodil now joins the pussy willow to give mid-winter a touch of spring. It is the small-flowered variety from the Mediterranean, of course. The larger flowered sorts from more northern climes will be along later.

The New Year is opening auspiciously for both the floral merchants and seedsmen. Flowers of all kinds are of good quality and, with the exception of roses, coming in sufficient quantities. Sweet peas are exceptionally fine, and among the new products of the season are paper white narcissus, tulips, jonquils, mignonette and calendulas. Lilies continue plentiful, but lilies of the valley are practically void. Prices continue fair.

Clear skies and moderate temperature is with us. Stock is in good shape and good stock is sold at fair prices. Of course cheap sales of "junk" and inferior quality flowers are slaughtered off and cheap signs on the down town district adorn the windows of some prominent retailers. Violets are getting more plentiful. Sweet peas are coming fine and holding at good prices. Greens are selling well.

The stores are continuing to book a large number of orders for dinner and party decorations. This is making good the sale of flowers of all kinds. There is a good demand for roses in all colors and some of the stock being received is of exceptional quality. This is particularly true of Mock roses which are bringing up to \$5 per dozen. American Beauty roses are selling fairly well. There is enough lily of the valley to fill all demands, but the price is so high as to limit its sale to quite an extent. Carnations continue scarce and the prices high. Snapdragon is also scarce and there is no oversupply of orchids.

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Cattleyas.....	25.00	to 75.00	30.00	to 75.00
Dendrobium formosum.....	to 50.00	to 50.00
Lilies, Longiflorum.....	to 8.00	8.00	to 10.00
Lilies, Speciosum.....	4.00	to 8.00	4.00	to 8.00
Callas.....	.....	to .....	.....	to
Lily of the Valley.....	3.00	to 4.00	3.00	to 4.00
Snapdragon.....	4.00	to 12.00	4.00	to 12.00
Daffodils.....	.....	to 4.00	.....	to 4.00
Narcissi, Paper White.....	2.00	to 3.00	2.00	to 3.00
Roman Hyacinths.....	2.00	to 4.00	2.00	to 4.00
Freesia.....	2.00	to 4.00	2.00	to 4.00
Tulips.....	2.00	to 6.00	2.00	to 6.00
Calendulas.....	3.00	to 5.00	3.00	to 5.00
Sweet Peas.....	1.50	to 2.00	1.50	to 2.00
Violets.....	.40	to 1.25	.50	to 1.00
Marguerites.....	1.00	to 1.50	1.00	to 1.50
Gardenias.....	8.00	to 25.00	8.00	to 25.00
Adiantum.....	.75	to 1.00	.75	to 1.00
Smilax.....	12.00	to 16.00	12.00	to 16.00
Asparagus Plumosus, & Spreng (100 bunches).....	20.00	to 35.00	20.00	to 35.00

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Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

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APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
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ASPARAGUS

Asparagus Plumosus Seedlings, \$1.00 per 100, \$5.00 per 1000. Ready May 1st. COLLINGDALE GREENHOUSES, Collingdale, Pa.

AZALEAS

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BAY TREES. Write for wholesale price-list.
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C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK BRANCH, 8-10 Bridge St.

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F. Dorner & Sons Co., Lafayette, Ind.
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CARNATION STAPLES

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 1000 for 35c.; 3000 for \$1.00 postpaid. I. L. PILLSBURY, Galesburg, Ill.

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Peony Dahlia Mrs. Frederick Grinnell.
Stock For Sale.
JOHN P. ROONEY, New Bedford, Mass.

DAHLIAS—Continued

ORDERS BOOKED ANY TIME
For Fall or Spring delivery. Wholesale and Retail. Send for Catalogue. NORTHBORO DAHLIA & GLADIOLUS GARDENS, J. L. Moore, Prop., Northboro, Mass.

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John Wanamaker, Newest, Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to PEACOCK DAHLIA FARMS, Berlin, N. J.

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Choice Flowering and Foliage Plants.
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High Grade Plants for Retail Florists.
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A. M. Davenport, Watertown, Mass.
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For Plants and Cuttings get our prices before ordering elsewhere. Our guarantee with every order. Write for a copy of our latest Plant Bulletin.

Asparagus	Cyclamen	Primula
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Bulbs	Dracaena	Snapdragons
Calceolaria	Ferns	Violets
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Cineraria	Hydrangeas	

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Philadelphia, 1608-1612 Ludlow St.
Baltimore, Franklin and St. Paul St.
Washington, D. C., 1216 H St., N. W.
New York, 117 W. 28th St.

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Geraniums, S. A. Nutt, 2 in., \$2.00 per hundred, \$18.00 per thousand; rooted cuttings, \$12.00 per thousand. Cash. Also few white cuttings and 2 in. W. E. ALLEN, Leominster, Mass.

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New Catalogue.
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Wanted—100 America gladiolus, large size bulbs, immediately. "H." care HORTICULTURE.

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Royal Glass Works, New York City.

Greenhouse glass, lowest prices. JOHN-STON GLASS CO., Hartford City, Ind.

GLASS—6 x 8, 8 x 10, 10 x 12, 10 x 14, \$1.90 per box. Other sizes at factory prices. C. N. ROBINSON & BRO., Dept. 29, Baltimore, Md.

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ORCHID PLANTS

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Bound Brook, N. J.
Importers and Growers of Orchids.
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PEONIES

Peonies. The world's greatest collection.
1200 sorts. Send for list. C. BETSCHER,
Canal Dover, O.

PECKY CYPRESS BENCHES

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"Riverton Special."

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ROSES, CANNAS AND SHRUBS.
THE CONARD & JONES COMPANY,
WEST GROVE, PA.

A. Koloos & Co., Gouda, Holland; also
L. Vanbeerde, care Maltus & Ware,
14 Stone St., New York City.
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SASH

STANDARD HOTBED SASH, with cross
bar, 85c. each; lots of 25 and over, 80c.
each. Satisfaction guaranteed or money
refunded. Glass 6 x 8, 8 x 10, 10 x 12 or
10 x 14, \$1.90 per box of 50 sq. ft.
C. N. ROBINSON & BRO., Dept. 29, Balti-
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Fottler, Fisk, Rawson Co., Boston, Mass.
Seeds for the Florist

Weeber & Don, New York City.
Flower and Vegetable Seed Specialties.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. LAGER
& HURRELL, Summit, N. J.

SWEET PEA SEED

Ant. C. Zvolanek, Lompoc, Calif.
Gold Medal of Honor Winter Orchid Sweet
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Est. 1765

Inc. 1904

Pot Makers for a
Century and a Half

HEWS STRONG RED POROUS POTS

World's Largest
ManufacturersStandard, Azalea, Bulb, Orchid, Fern, Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.Write for Catalogue
and Discounts**A. H. HEWS & CO., Inc., Cambridge, Mass.**Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.**WHOLESALE FLORISTS**
DetroitMichigan Cut Flower Exchange, 264-266
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Rochester, N. Y.George B. Hart, 24 Stone St.
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PLANTS.**A. Leuthy & Co., Roslindale, Mass.
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TLE AND SHEEP MANURE.**The Pulverized Manure Co., Chicago, Ill.
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For page see List of Advertisers.**REMOVAL NOTICE**Thos. J. Grey Co., Boston, Mass.
For page see List of Advertisers.**THE NUT-GROWER**The unique monthly publica-
tion which furnishes reliable
and interesting up-to-date in-
formation regarding the value
of pecans and other edible nuts
and how to grow them for profit.**Subscription, \$1.00 per year****Sample Copy Free****THE NUT-GROWER****No. 2 Francis St.****WAYCROSS, GA.****WANTS, FOR SALE, ETC.**Advertisements in this column
one cent a word. Initials count
as words. Cash with order. All
correspondence addressed "Care
HORTICULTURE" should be sent
to 147 Summer St., Boston.**HELP WANTED****WORKING FOREMAN WANTED**—On
gentleman's country place twenty miles
from New York City. Must have experience,
knowledge of plants and shrubs, live stock,
vegetable garden, general farming, farm
machinery and understand managing men.
State age, nationality, past experience, what
references can be given and salary desired.
Only men willing to work for results need
apply. Single man preferred. Address
Box 85, Mamaroneck, N. Y.**WANTED**—An experienced man for prop-
agating hardy ornamentals under glass.
Address "W. J. H.," care of HORTICUL-
TURE.**SITUATIONS WANTED****WANTED**—By American, honest, temper-
ate, steady worker, situation with florist to
learn greenhouse management or business,
Mass. or N. H. preferred. Address H. E.
BRYANT, 277 Park St., Peterboro, Ontario,
Canada.**SITUATION WANTED** as foreman,
private or Commercial. Experienced in
roses, carnations, mums, Sweet Peas, vio-
lets, cyclamens, etc.; also fruit under glass.
Age 29; good references. "N. W.," care of
HORTICULTURE.**FOR SALE****GREENHOUSE FOR SALE****Near White Sulphur and Hot
Springs, Va.****Address W. G. DUDLEY**
CLIFTON FORGE, VA.**FOR SALE**—Greenhouse property or part
interest in same. Two greenhouses, each
22 x 200 ft., in good condition, planted
mostly to Carnations, Sweet Peas and
Geraniums; 4 to 5 acres of land; good
location. ALLEN & BLANCHARD, 185,
Exchange St., Leominster, Mass. Tel. 107W.**FOR SALE**—Second-hand GREENHOUSE
MATERIAL—Material from a Stearns Cy-
press house (lean to) 163'x35', glass, 16x24;
cleaned and repainted, \$500. Also entire
equipment of a ¾ span, tall, airy house,
\$1,500. Post Office Box 313, Belmont, Mass.**MISCELLANEOUS****WANTED TO RENT** with privilege of
buying 10,000 to 20,000 ft. glass, with dwell-
ing house. New England or Massachusetts
states preferred. State full particulars in
first letter. Address T. C., care of HORTI-
CULTURE.**WANTED TO RENT OR BUY**, near
Boston, 15-20,000 feet of glass, with dwell-
ing on place. Please explain it all in first
letter. Address "CARNATIONS," care of
HORTICULTURE.



Sash Operating Device and Greenhouse Fittings

Designed and Manufactured exactly right.
You will like our methods of doing business.

Write for our catalog at once.

ADVANCE CO., RICHMOND, INDIANA



If you need a boiler in a hurry telephone or telegraph at our expense

KROESCHELL BOILERS

SEND FOR CATALOG

Kroeschell Bros. Co., 466 W. Erie St., Chicago



THE TRAFFIC CONGESTION AND ITS LESSON.

Dear Mr. Editor:

Unusual situations demand unusual measures; it is trite to say that all agricultural interests are facing an unusual situation this season.

It is said on good authority that nearly every successful co-operative organization among farmers was born of necessity. In much the same way, the present critical situation is bringing out an exceptionally close co-operation among all industries allied to agriculture. Manufacturers, railroads and dealers are working together as never before. Farm papers, too, have it within their power to render a great service to readers and advertisers alike. You are no doubt, familiar with the present car shortage and the resulting congestion of traffic. Suffice it to say that 150,000 more cars were needed Dec. 1st and the number is increasing month by month.

A letter (one of many) from a client vividly portrays another phase of the situation. He says in part: "It is im-

possible to get materials on short notice. In other words, manufacturers have bought material for a moderate amount of business, but owing to prices, have not dared to stock heavily. An unusual rush of orders would, therefore, make a difficult situation, and dealers will be wise to place their orders as far in advance as possible." Another suggests that we ask, "the farm papers to co-operate with all manufacturers by urging their readers to do their spring shopping early."

These earnest words from men who know need no comment. Won't you co-operate with us in the "Do Your Spring Buying Early" campaign? Orders for farm machinery, silos, cream separators, milking machines, nursery stock, seeds, spray materials, etc., should be placed now to insure delivery when wanted.

Your co-operation will be appreciated and can not fail to benefit all concerned.

Very truly yours,
The Charles Advertising Service.
New York.

GREENHOUSES BUILDING OR CONTEMPLATED.

St. Joseph, Mo.—Rau Floral Co., additions.

Montreal, Can.—E. J. Hayward, fern house, 25 x 125.

Webb City, Mo.—O. C. Moore, house, 13 x 60, completed.

Washington, D. C.—Dunbar Floral Co., rose house, 50 x 250.

Tannersville, N. Y.—Clarence McDaniel, one house, completed.

Wheaton, Ill.—R. Scheffler, sweet pea house, 36 x 250, completed.

Detroit, Mich.—Joseph Streit, McLellan avenue, propagating house, 10 x 60.

BUSINESS TROUBLES.

Beverly, Mass.—Thomas L. Mulligan, gardener; liabilities, \$1,613; no assets.

PATENT GRANTED.

1,209,814. Insect Destroyer. Walter T. Cullifer, Ozark, Ala.

1,210,502. Greenhouse. William H. Lutton, Jersey City, N. J.

1,210,879. Gang Lawn Mower. Charles C. Worthington, Dunfield, N. J.

GLASS CLOTH

A transparent waterproof fabric, guaranteed to generate about the same warmth and light as glazed sash, or money back. For all forcing purposes. Sample 3 x 6 feet. 50c. prepaid.

PLANT FORCERS

TURNER BROS., Bladen, Nebraska

LOUIS COHEN

Window and Plate Glass

86 1st Avenue, NEW YORK CITY

Double Thick 16/24 for the Florist

A SPECIALTY. WRITE ME FOR PRICES.



DREER'S

Florist Specialties,
New Brand. New Style.
Hose "RIVERTON."
Furnished in lengths up
to 500 ft. without seam or
joint

The HOSE for the FLORIST
1/4 inch, per ft., 15 c.
Reel of 500 ft. " 14 1/2 c.
2 Reels 1000 ft., " 14 c.
3/4 inch, " 13 c.
Reels, 500 ft., " 12 1/2 c.

Couplings furnished
HENRY A. DREER,
714 Chestnut St.,
PHILADELPHIA, PA.

STANDARD FLOWER

POTS

If your greenhouses are within 500 miles of the Capitol, write us; we can save you money

W. H. ERNEST

29th & M Sts., Washington, D. C.

Visitors' Register

New York B. Hammond Tracy, Wenham, Mass.; Peter Murray, Boston.

Washington, D. C.—I. Rosnosky, Phila.; Harry F. Marquardt, repr. Ralph M. Ward & Co., New York.

Pittsburgh—Isaac M. Bayersdorfer, Philadelphia; Milton Alexander, New York City; I. Adler, Chicago; George Hampton, Philadelphia.

Chicago—Wm. Skinner, Barrington, Ill.; R. H. Beerhorst, Sassenheim, Holland; Mr. and Mrs. E. L. Weiss, Fort Dodge, Ia.; W. C. Lawrence Atlanta, Ga.; L. E. Worth, Supt. Moosehead Nursery Co., Moosehead, Ill.; Wm. Kirkham, Virginia, Minn.; C. H. Perkins, Newark, N. Y.

FOLEY MATERIALS

ARE THE BEST FOR

Iron Frame, Pipe Frame or Wood Frame GREENHOUSES

Estimate and Sketch Submitted Promptly

THE FOLEY GREENHOUSE MFG. CO.

3275 West 31st Street, - - - - CHICAGO, ILL.

SHARP, PARTRIDGE & CO.

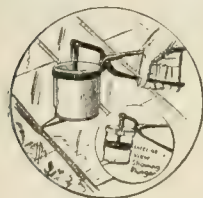
Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS.

CHICAGO, ILL.

The Only Perfect Liquid Putty Machine



Will last a life-time.

\$1.25 EACH

Adjustable—can and frame separate—easily cleaned. Frame all one piece, of malleable iron. More practical and more easily operated than any other.

SEAL TIGHT LIQUID PUTTY
\$1.35 per Gallon in 10 Gallon lots
\$1.40 per Single Gallon

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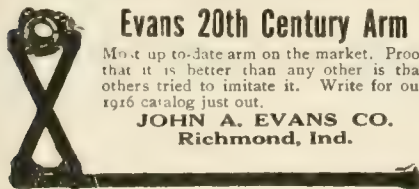
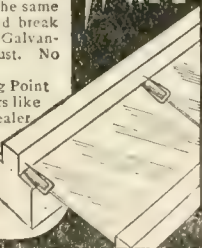
For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts. The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid.

Samples free.
HENRY A. DREER,
714 Chestnut Street,
Philadelphia.

FULL
SIZE
No. 2



Evans 20th Century Arm

Most up-to-date arm on the market. Proof that it is better than any other is that others tried to imitate it. Write for our 1916 catalog just out.

JOHN A. EVANS CO.
Richmond, Ind.



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For Greenhouse Glazing

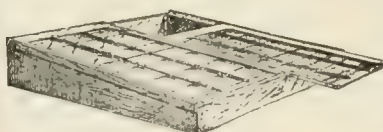
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Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.



HOTBED SASH at 80c. each

Made of best grade Gulf cypress.

Glazed Hotbed Sash from \$1.65 up.

Double Light Sash up to \$4.00.

We carry a large stock of all sizes. Write us for estimate

S. JACOBS & SONS

1359-1385 Flushing Avenue BROOKLYN, N. Y.



NON-KINK WOVEN HOSE

In any length (one piece) with couplings, 15c. per foot. Unequalled at the price.



Hose Valve, 70c.

All brass except the hand wheel. Has a removable leather disk which is easily replaced to keep water tight. Stuffing box prevents leaks at stem.

METROPOLITAN MATERIAL CO.

1392-1414 Metropolitan Ave., Brooklyn, N. Y.

The Florists Hail Association rate of insurance from Nov. 1st, 1916 to Nov. 1st, 1917 will be twenty cents per hundred square feet of single thick glass and eight cents per hundred square feet of double thick glass. For particulars address **JOHN G. ESLER, Sec., Saddle River, N. J.**

JACOBS GREENHOUSE CONSTRUCTION ENDORSED BY WORLD-FAMOUS ARCHITECTS



This range of Jacobs greenhouses are now in course of erection for Mr. J. Insley Blair at Tuxedo, N. Y. They are without a doubt the "last word" in greenhouse construction.

The plans which contained all manner of modern improvements and scientific arrangements were drawn by the internationally famous architects Carrere & Hastings, who, after thoroughly examining practically every style of construction in their search for the maximum of efficiency, placed their plans and construction contracts with us.

Is it not fair to assume that what we are doing for them, we can do equally as well for you?

WE KNOW WHAT TO DO AND WHAT NOT TO DO

What's more, we can save money for you

S. JACOBS & SONS

Greenhouse Builders

1359-1358 Flushing Avenue

BROOKLYN, N. Y.

GLASS

GREENHOUSE MATERIAL HOT-BED SASHES

Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.

215-217 Havemeyer St., Brooklyn, N. Y.

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Difficult and rejected cases specially solicited. No misleading inducements made to secure business. Over 30 years' active practice. Experienced, personal, conscientious service. Write for terms. Address,

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

DELIVERIES

We're doing everything in *our* power to
speed them up

RAW materials used in greenhouse construction are pretty well tied up.

War business—of course.

That's a condition beyond our control—a thing we can do nothing about.

But what happens to that material when we do get it, is a condition that's **not** beyond our control.

Bad **outside** conditions, make necessary the making of **inside** conditions better.

We're doing that very thing.

We're continually putting in new machinery to increase the **speed** of our production.

For instance, we recently put in a machine that enables four skilled men to do the work that formerly required ten. With the labor market in its present condition, it is doubtful whether we could get the ten skilled men anyway. The new machine increases production 40%. While one of these new machines was plenty to take care of the **quantity** of work, we finally decided to put in another to cut in half the amount of **time** necessary to do it in.

We are making time saving improvements like this all along the line.

As a result when raw material reaches us, it will go from us to you in the form of your greenhouse, just as quickly as possible.

So when we say (as we did at the top of this Ad.) that we're doing everything in **our** power to speed up deliveries, we are stating a fact—not just talking.

Hitchings and Company



NEW YORK
1170 Broadway

BOSTON
49 Federal Street

PHILADELPHIA
40 S. 15th Street

General Offices and Factory, Elizabeth, N. J.

Vol. XXV
No. 3
JAN. 20
1917

HORTICULTURE



Pasadena's New Year Celebration

Breathing the Spirit of the Orient, the Imperial Hotel of Tokio and the Grand Hotel of Yokohama were represented.

Published Every Saturday at 147 Summer Street, Boston, Mass.
Subscription, \$1.00

"HAMBURG LATE WHITE" CHRYSANTHEMUM



Above picture was taken Nov. 26, 1916, and will give a good idea of what "Hamburg Late White" looks like when grown to single stems and planted six inches each way.

"Hamburg Late White" is pure white under all weather conditions and is a sport of Maud Dean white, but has no trace of pink, as the original.

The average grower of chrysanthemums must have varieties which are easy to handle and from which he can cut as near 100% of perfect blooms as possible. "Hamburg Late White" has been grown for the last four years and produces a very high proportion of good flowers. It is not an exhibition variety, but for late white, one of the best for commercial purposes. It can be had in bloom the latter part of November, by taking an early bud; but by selecting later buds, most of the flowers are cut during December and we would advise to select a late bud, as the later buds come somewhat fuller, and by selecting late buds, flowers can be had as late as the middle of January.

Keeping qualities are excellent and where a light, graceful white flower is wanted, "Hamburg Late White" cannot be surpassed.

"Hamburg Late White" will be disseminated in the Spring of 1917. Plants will be ready March 1st, 1917, and all orders will be filled in rotation.

Rooted Cuttings, \$12.00 per 100; \$100.00 per 1000.

2 inch pots, \$15.00 per 100; \$125.00 per 1000

WILLIAM F. KASTING CO.,

568-570 Washington Street
BUFFALO, N. Y.

CARNATIONS

Field Grown

ENCHANTRESS SUPREME, EUREKA
WHITE WONDER, PINK DELIGHT.

\$7.00 per 100; \$60.00 per 1000.

ENCHANTRESS, LADY BOUNTIFUL,
MATCHLESS.

\$7.00 per 100; \$55.00 per 1000.

LADY NORTHCLIFF, PINK WINSOR,
WHITE WINSOR.

\$6.00 per 100; \$50.00 per 1000.

WOOD BROS., FISHKILL,
N. Y.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

CHARLES H. TOTTY
CHRYSANTHEMUMS
MADISON, N. J.

A. N. Pierson, Inc.
CROMWELL, CONN.
Bedding Plants and Roses

When writing to advertisers kindly
mention HORTICULTURE.

THE LATEST NEW RED CARNATION "CORNELL"

originated with us five years ago, and successfully grown since then for a large retail trade.

Very free bloomer, giving flowers in abundance for the Holidays.

Good red color, medium size flower; splendid seller; lasts well and does not split. Cuttings ready for delivery now.

\$6 PER HUNDRED

\$50 PER THOUSAND

IRA G. MARVIN, 23 S. Franklin St., Wilkes-Barre, Pa.

HEADQUARTERS FOR

**PALMS, FERNS, DECORATIVE
AND BEDDING PLANTS**

Lilacs, Prunus, Box Trees,
Laurels, Etc.

A. LEUTHY & CO.
ROSLINDALE, MASS.

ORCHIDS

Francisco Delgado Q.
Orchid Collector

Solicits orders for shipments of Orchids,
Prices quoted upon application.

BOGOTA (Chapinero) COLOMBIA

WHITMANII IMPROVED—\$5 per 100, \$40
per 1000.
WHITMANII COMPACTA—\$5 per 100, \$40
per 1000.
ROOSEVELTS—\$5 per 100, \$40 per 1000.
BOSTONS—\$4 per 100, \$35 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

FERNS, ETC.

NEPHROLEPIS TEDDY, JR., 2 1/4-in. pots,
\$6.00 per 100; 3 1/2-in., \$15.00 per 100; 6-in.,
\$6.00 per dozen; 8 in., \$12.00 per dozen.
NEPHROLEPIS SMITHII, 3 1/2-in. pots,
\$3.00 per dozen; 5-in., \$6.00 per dozen.
NEPHROLEPIS MUSCOSA, 3 1/2-in., \$3.00
per dozen.

FICUS ELASTICA, 50c., 75c. and \$1.00 each.

F. R. PIERSON, Tarrytown, N. Y.

ELMER D. SMITH & CO.

CHRYSANTHEMUMS

Ask for Catalogue

ADRIAN, - - - MICH.

**CHRYSANTHEMUM
ALEX. GUTTMAN**

The best Early Lavender-Pink in the
Market. Blooms have been selling for \$6.00
per dozen since middle of September. Stock
Plants, 75c. each, \$7.50 per doz.

GUTTMAN & RAYNOR, INC.

Wholesale Florists
101 West 23rd St., New York, or FRANK
DINDA, Farmingdale, N. Y.

GERANIUMS

Scented Varieties, such as Rose, Nutmeg, Lemon, Oak Leaved, etc. \$2.00 per 100 for 2-in., \$3.00 per 100 for 3-in.

MISCELLANEOUS PLANTS 2-in., \$2.00 per 100, \$18.50 per 1000; 3-in., \$3.00 per 100, \$25.00 per 1000. **ALYSSUM**, Giant and Dwarf. **ALTERNANTHERAS**, 10 varieties. **AGERATUM**, 6 varieties. **BEGONIAS**, Luminosa, Vernon, Erfordia, Pfitzer's Triumph, Gracilis Rose. **COLEUS**, 10 varieties. **CUPHEA**, **HARDY ENGLISH IVY**, **HELIOTROPE**, Mad. Bruant, Chieftain and Mma. A. Bloney. **LEMON VERBENAS**, **LANTANAS**, 10 varieties. **MOONVINES**, white and blue. **PARLOR IVY**, **PETUNIAS**, Double and Fringed, mixed colors. **POMPON CHRYSANTHEMUMS**, large assortment. **SALVIA**, Bontire and Zurich. **SWAINSONA**, white. **ABUTILON SAVITZII**, 2-in., \$3.00 per 100; 3-in., \$4.00 per 100.

ROOTED CUTTINGS Coleus, 10 varieties, including Golden Bedder and Verschaffeltii. Heliotrope, Ageratum, blue and white, 75c. per dozen, postpaid; \$5.00 per 1000, by express, not prepaid.

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CASH WITH ORDER

R. VINCENT, Jr., & SONS CO.,

WHITE MARSH,
MD.

WE IMPORT

To Order, for the Trade Only, Spring or Fall Delivery

GIGANTEUM and other forcing and hardy **LILIES**, **KENTIA** and other **PALMS** and Exotic plants; also **PALM SEEDS**; **RHODODENDRONS**, **ROSES**, **AZALEAS**, **BUXUS**, **LAURUS** Plants, and **FRENCH** and **DUTCH** forcing **BULBS**; also all **NURSEYMEN'S TREES**, **EVERGREENS** and **ORNAMENTAL SHRUBS**. Address for detail

AUGUST RÖLKER & SONS, P. O. Box 752,
or 51 Barclay Street, New York

LILY BULBS

RALPH M. WARD & CO.
71 MURRAY ST., NEW YORK

When writing to advertisers kindly
mention **HORTICULTURE**.

OUR MOTTO: THE BEST THE MARKET AFFORDS

ORDERS TAKEN NOW
FOR 1916 CROP

CHAS. SCHWAKE & CO., Inc.

Valley

GERMAN, SWEDISH
AND DUTCH PIPS

90-92 West Broadway, New York

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RUTHERFORD, NEW JERSEY

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toll, we ought to blame the culture, not the soil."—Pope.

Canterbury Bells

It is now time to arouse these plants into activity if wanted for Easter. Start in about 45 degrees at night, and when new growth starts increase the temperature slowly until the minimum of 50 degrees is reached. They make beautiful objects in pots for Easter decoration. When they have filled the pots with roots, feeding will help them materially, and more than repay for the trouble. Admit fresh air on every favorable occasion. By the end of February they will stand a night temperature of from 60 to 65 degrees and will need lots of water at the roots and a good syringing overhead on all bright days. Give light fumigation every ten days.

Violets

In a violet house where the stock is up to date, it will not be hard to find good stock for propagation. Conditions are just right for the propagation of violets now. It pays to examine them somewhat closely so as not to let any slip in that show the least trace of mites, weakness or spot disease. Put them into sand in the coolest part of the propagating bench or in well-drained boxes filled with sweet, sandy soil and keep moist and shaded. Do not allow the cuttings to wilt at any time either before or after they are placed in the sand. With frequent sprinkling they will soon be ready for transplanting into other boxes, when a much richer soil can be used, and when the roots have taken to the soil and the plants become firmly established shading will only be necessary on extremely bright days. Do not let the temperature go above 45 degrees night, and 10 to 15 degrees higher with sun.

Pennisetums

There is always plenty of demand for ornamental grasses for the trade. There are several varieties of penisetums, and all are decorative and make splendid edges for beds containing cannas or large subtropical plants. *P. Ruppelianum*, commonly called the purple fountain grass, has graceful foliage and purplish plumes. *P. longistylum*, carrying greenish white plumes, is the variety most in evidence. Then there is the newer *P. japonicum*, which makes a splendid bed by itself or is effective if used as an individual specimen. This variety will make fine plants the first season. They can be sown in a sandy mixture and placed in a house with a temperature of 65 degrees at night. When large enough prick out in flats. With all the penisetums it is necessary to pot off seedlings single and, as they grow quite rapidly, a shift into 3 or 4-inch pots may be necessary

before planting-out time. When they come up keep well up to the glass and do not keep too wet.

Propagating Ficus

The cuttings, usually from six to eight inches long, and with several leaves attached, should be taken from the latest growth and should be cut just below a joint. They may be inserted in small pots of sand and loam, and the pots plunged in a bench which has a bottom heat of about 80 degrees. It is well to fasten the leaves up to a small stake so as to save room and facilitate watering. After the first watering the soil should be kept only moderately moist. In propagation by mossing, the tops of young plants can be used. Nine or ten inches from the tip of the shoot sphagnum moss is inserted to keep the cut open, and more moss is wrapped around the stem. When young roots show through the moss the new plants can be taken off and potted up.

Vincas

Thrifty plants in 3-inch pots with three or four hangers and more coming sell good and are to be preferred to overgrown roots. They should have a temperature of from 55 to 60 degrees at night. It is advisable to pot divisions for the present in as small pots as possible so that at about the beginning of March the last shift into four-inch pots will provide them with large amounts of fresh soil and nutriment to which they will then more readily take than now. Strong, salable stock cannot well be had from cuttings in good time for the next spring, if put in the sand as late as this, but fine stock for another season's trade to be grown into size under field culture next summer may thus be obtained. They can be put into flats of sand quite close together, in a night temperature of about 60 degrees. Keep shaded and moist and they will root in four or five weeks.

Reminders

Be careful of your sand. Clean sand is one of the most important aids to successful propagation.

Give everything in frames out of doors as much light and air as possible, when the weather is at all favorable.

Several odd things in seeds may now be sown to advantage, such as antirrhinums, hollyhocks, begonias, asparagus, etc.

There is no better time in the whole year for the propagation of a great number of indispensable plants than now, when without sacrifice or inconvenience the necessary conditions exist.

Next Week:—Amaryllis; Flowering Shrubs for Easter; Foliage Plants; Odontoglossum; Sowing Palm Seed; Reminders.

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A favored land

Our cover illustration shows a New Year's scene in one of our most favored cities, in this vast country with its great variety of climatic conditions. Those of us whose lot is cast in a colder latitude will be excusable, surely, if we are a bit envious of a place which can turn out such a gorgeous display of flowers and verdure at a season when our northern gardens are frozen and

desolate. We must congratulate our friends on the other side of the continent on their strict rule against the use of anything but fresh flowers in these floral pageants. Artificial material has its uses, but not in such a place on such an occasion.

A weighty problem

Our correspondent in this number, who comes forward with such strong convictions in approval of the proposed quarantine against tree and plant importations from abroad seems to impute to us a possible selfish disregard of the general welfare because we admit to our columns the views of correspondents with whose opinions he cannot agree. But HORTICULTURE's correspondence columns are open at all times to any and all who have convictions on any subject of vital importance to American horticulture and who are able and willing to express them acceptably. The matter of plant importation, at the present stage of home plant production, is of vital importance, from whatever viewpoint we may individually consider it, and so it seems hardly necessary to assure the gentleman that the appearance in our columns of the communication which he criticises is in no sense any evidence of HORTICULTURE's indifference to the general welfare or of a willingness to jeopardize the future of our gardens and forests for a mere business advantage. We have heard much on both sides of this controversy in its various aspects for several years back and there is much more that might be and undoubtedly will be said for and against the drastic remedial and preventive measures which are being urged. We hope those of our readers who have clearly defined ideas on this or any kindred topic will feel free to express them in our columns. We can assure them of a receptive and intelligent audience for that is the class which HORTICULTURE seeks to interest.

"All up!" for the S. A. F.

Secretary John Young has some sound and practical advice for the incoming S. A. F. state vice-presidents, in this issue. State vice-presidents sometimes need to be reminded of their duty to the society which has conferred so marked an honor upon them, and to the great industry whose welfare in their immediate territory has been in a certain degree placed in their keeping. How often the selfish, cold-blooded question, "What has the S. A. F. done that I should support it?" is asked, only those who have held official responsibility in the society know. Secretary Young has enumerated a few of the society's benefactions and, as he intimates, there are many more that might be mentioned. "Lest we forget," one of the memorable services rendered by the S. A. F. to the flower trade of the country which Mr. Young has not mentioned—although it was local in its immediate application—was the crushing defeat administered to the then arrogant United States Express Company by appeal to the Interstate Commerce Commission some ten years ago against the extortionate transportation charges and arbitrary treatment of flower shipments to the New York market. If the florists have forgotten that episode the express magnates have not. With a membership of fifty thousand, which is not at all an unreasonable number, instead of two thousand, it requires no great stretch of the imagination to realize the possibilities for good in such an organization. Every state vice-president should "do his bit" to this end and there will never be a better time to make the effort than the present.

The Danger of Foreign Plant Pests

Editor of HORTICULTURE:

Dear Sir:—I was sorry to see in your issue of December 30th, an article headed "Proposed Quarantine Against Trees and Plants," in which the writer, a plant importer, belittles and ridicules the danger of importing foreign plant pests. I realize that you represent the florist trade, of which the importing house is a part, and that you feel bound to protect your clients against injury. But in order to save the importer is it wise or right to jeopardize the safety of our trees and shrubs and flowers, our fruits and vegetables and farm crops, and do you feel it your duty to advocate the rights of a comparatively small group of importers, if such rights are antagonistic to the general welfare?

Your writer's scoffing remarks about the statement of the American Forestry Association that imported pests annually cause damage of hundreds of millions of dollars, led me to look up some figures on the subject. I find that the Department of Agriculture in its 1904 year book placed the annual loss from insects at \$700,000,000, or \$7.00 for every man, woman and child in this country. Your writer will say that these were not all imported insects. That is true, not all—probably not half. But just stop and consider how many of our most troublesome insects are imported. I name a few at random:—Gypsy Moth, Brown Tail Moth, Codlin Moth, San Jose Scale, Apple Aphis, Pear Psylla, Asparagus Beetle, Cabbage Worm, Onion Maggot, etc., etc. Please note also that the above estimate is for insects alone and does not include diseases (about which I have been unable to get any definite figures.) To show your writer, however, that imported diseases can do terrible damage I need only mention the Chestnut Blight (from China), which has killed practically every chestnut in this section (as well as in Long Island and other places). Pine Blister Rust now threatens to do similar damage to New England and the government now prohibits the importation of all Pines (locking the stable after the horse is stolen).

In his second paragraph your writer asks why we cannot get along with these pests if Europe can. Europe can and does survive in spite of these pests, but that does not prove that they are desirable. Other countries have survived with leprosy and bubonic plague, but this country will not allow people suffering with these diseases to land here. Concerning his specific instance that Europe still has a plentiful supply of White Pine let me inform him that *Pinus strobus*, which is here threatened with Blister Rust is not native to Europe, nor a supremely important tree there. If all of this species in Europe is destroyed it will not affect the European timber supply which comes, of course, mainly from native trees.

A proper plant quarantine law passed fifty years ago would have kept out most of the foreign plant pests and would have forced our nurseries to do more propagating, thereby producing more made-in-America stock, a thing you have so often urged in your columns. Now that these pests are with us we have to endure them

and fight them. But is it not high time to prevent the introduction of more of these pests? Our scientific men can tell us what dangers still threaten us and what classes of plants we must exclude. Why can we not listen to them and be guided by them, shaping our course for the public welfare, and not for the selfish benefit of any individual or group of individuals?

Yours truly,

John C. Wieter

Germantown, Phila., Pa.

The "Why" of the Carnation

Editor of HORTICULTURE:

Dear Sir:—In a western trade paper, issue of Jan. 11, was an editorial query as follows: "Why is the carnation falling behind in the selling in flower stores of the better class?" I cannot let this query pass unnoticed and would ask your indulgence while I try to answer.

The sum and substance of the matter is that the majority of "stores of the better class" will not pay the price that good quality carnations are worth. Consequently a lot of cheaper grade stock is grown for quantity rather than quality. In Boston good carnations are holding their own with the rose (I cite the rose as we all have to acknowledge the rose as queen) for the reason that no city in this country has a higher grade of carnations offered for sale than has Boston. We have, also, some that are not worthy of the name of carnation, at that.

A rose at \$3.00 or \$4.00 per dozen is only a disappointment to the purchaser. Lucky to have it keep 24 hours, while a carnation at \$1.50 or \$2.00 will be a source of pleasure for nearly, if not fully, a week. I am sure that had the editor referred to had headquarters in an eastern city instead of the west he never would have had cause to ask such a question. I have visited his markets on many occasions and I can readily understand why he asks. We have some such quality in the Boston markets that the directors hire teams to cart away in the rubbish barrels, for the growers or their salesmen can't induce buyers to part with their good money for such stock. No wonder carnations are falling off in popularity in the West. Until there is better stock grown and offered in the stores it will be impossible for them to increase the sales on carnations.

I contend that a well grown carnation is worth \$2.00 per dozen any time during the winter. By "well grown" I mean a 3 to 3½ inch flower on a good stiff stem and not a puny little thing on the end of a piece of string capable of being tied in a knot. The latter are not carnations; they are rubbish.

As carnations of the best grade sold in Boston at Christmas at from \$10 to \$15 per 100, and not enough to go around at that price, so they are selling now at from \$5 to \$8 per 100 for best stock, and this is no "pipe dream"—it is cold facts. At these prices I am sure it is good argument that the carnation is holding its own right here in New England and the East generally.

J. J. Goddard

Framingham, Mass.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

Suggestions to State Vice-Presidents by Secretary John Young

The state vice-presidents, appointed annually by the president-elect, are expected to represent the Society in their respective states in all matters pertaining to the Society's work. They should lend every effort possible toward building up and strengthening the Society by adding to its membership, through a systematic canvass, either personally or by letter, of the florists, and others having kindred interests, resident in the territories relegated to them. The work of obtaining new members is all-important. There are many states having what may be termed an inexcusable lack of representation on our membership roll, and it is quite apparent that with but little effort, this condition can be changed. Every state vice-president is continually in touch with florists who are not members of our Society, and it should be the ambition of each to bring such into our organization.

The important work done by the Society in behalf of the whole florist trade in this vast country is a matter of record, and needs no trumpeting; every florist has participated in the advantages resulting, advantages not possible of accomplishment through individual effort. This is the day of organization in the business world, and never was the banding together of men engaged in different industries more necessary.

A powerful organization in our own industry became an absolute necessity years ago, and we have it in our own Society, whose membership now exceeds 2,000. But when statistics show 20,000 or more florist establishments in the country, we realize that we are far short of our aim to be thoroughly representative.

The Society has much work mapped out for the near future, including an effort to induce a greater use of flowers on the part of the public. It has been painfully evident within the past two years that the consumption of flowers is woefully short of the production, entailing a vast loss to growers. A campaign of publicity such as the Society has in contemplation, will entail prodigious expense, and can only be entered upon when those whom it will most interest will give the small support asked of them—a membership in the Society.

State legislation in regard to the operation of greenhouse heating plants is another important problem now receiving the attention of our organization, one in which individual action is without avail. The growers in every State are threatened with legislation to compel them to yield to unjust measures to force them to employ

licensed engineers to run their heating plants, and these to work in eight-hour shifts. Just stop to think what this would cost florists! Could an individual florist do anything to stop it, or change it to meet conditions?

These are matters which can be emphasized in approaching a florist whom it is desired to bring into the fold.

The question may be asked: "What has the Society done for the good of the trade?" All the good work of the Society could hardly be described, but it is well to remember a few of the most important services rendered to the trade, particularly the following:

Not so very long ago it was impossible to insure greenhouse establishments against damage by hail. Insurance companies refused all overtures for such insurance, because they said they had tried it, and found it to be a losing game. The S. A. F. and O. H. took the matter up, and, after much thought over conditions, started the Florists' Hail Association, and incorporated it as a section of the Society. This association now underwrites risks on about four million square feet of glass, located in different parts of the country, has a reserve fund of \$35,000 or more, and since its organization, has paid out over \$300,000 for losses. The membership roll in this association now comprises nearly 1,500 names.

Everyone remembers how the florists grumbled when they realized that while books could be sent by mail for 8 cents per pound, they were required to pay a postage of 16 cents per pound for bulbs and seeds. Our society took the matter in hand, with the result that the government made a special low rate for seeds and bulbs, which remained in force until parcel post was instituted.

Individual effort proved unavailing in attempts to obtain a proper and fair rate from the express companies on plants. Our society took up the matter, and after a hard fight, obtained a concession which is still enjoyed by practically every florist in the land.

Variety in sizes of flower pots was a source of much trouble to florists some years ago. The society standardized sizes and today there is absolute uniformity in pots.

To give impetus to the art of floriculture, the society made national flower shows possible. These shows, held at intervals of two or three years in our larger cities, at tremendous expense, have proved to have wonderfully benefited all branches of the florist trade in wide areas surrounding the cities where they have been held.

The society established the Florists' Telegraph Delivery as a section, an organization of retail florists which makes the interchange of orders by telegraph both safe and profitable.

These are only a few instances of effective work accomplished by our society, but should be quite sufficient to appeal to a florist when considering taking out a membership.

Our year book for 1916 contains much information as to work in progress, and a close reading of the volume will evolve many talking points. If an additional copy or two would be of service, they are available on application to the secretary.

The Convention Exhibition.

Complying with the many inquiries and requests that have been received at this office, we are sending out at this time the plan of the main floor of the Grand Central Palace, New York, where the Thirty-third Annual Convention and Trade Exhibit of the Society of American Florists and Ornamental Horticulturists will be held August 21st, 22nd and 23rd, 1917.

Undoubtedly all available space will be reserved at an early date. Better accommodations may be had if reservations are made at this time. Those who are familiar with the general layout of the Grand Central Palace (it was in this building where the Third National Flower Show was held) will know that any location on the main floor will be favorable for making an attractive exhibit.

This will be a Business Convention. Send in your orders for space promptly. If upon receipt of your order, space desired has already been reserved, the Secretary will allot the next best favorable location unless you have objection.

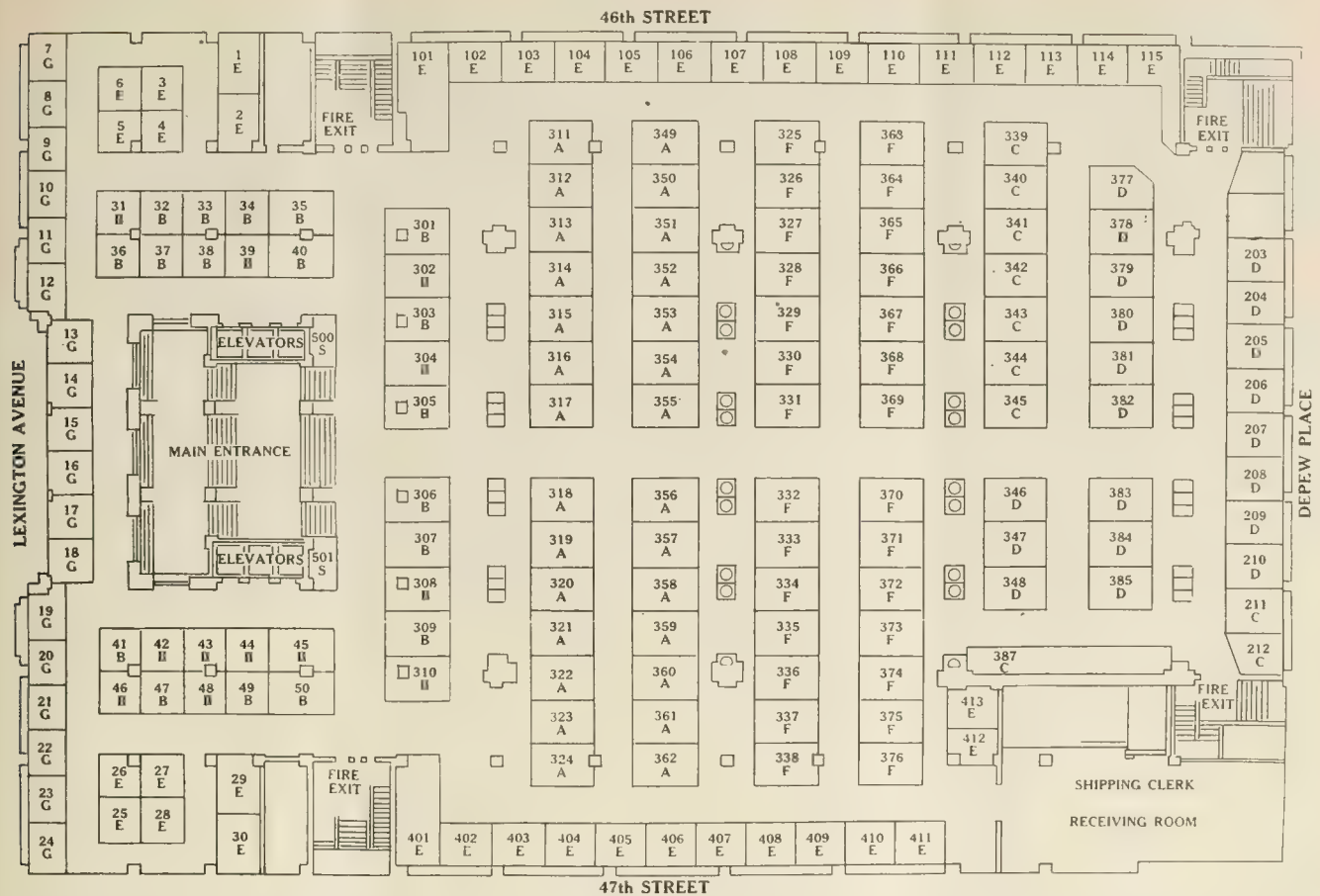
The Convention Garden

Just a word about the Convention Garden. Make an exhibit here—it will be the opportunity of a life time! Do not delay in reserving space if you are interested. The rate for space is only ten cents per square foot. Your Secretary will be pleased to take up with you now the question of allotment of space in the Convention Garden, which will be located in a most favorable section of the Botanical Garden, Bronx Park, where the exhibits will be seen by thousands of interested people daily. The plantings will be under the supervision of Dr. N. L. Britton, Director of the Botanical Garden.

The New York International

The management of the New York Flower Show to be held in March have generously offered to provide free admission to the exhibition to all S. A. F. members in good standing. S. A. F. members will, therefore, apply at the offices of the Flower Show Committee upon arrival at the hall. Exhibitors in the trade exhibit at the convention will have the opportunity, if they visit this Flower Show, of seeing the location of spaces they have reserved.

JOHN YOUNG, Secy.,



Thirty-third Annual Meeting and Trade Exhibition, Grand Central Palace, 430 Lexington avenue, New York City, August 21-22-23, 1917.

Dimensions of Spaces.

Space 101	.....	10 x 20	feet
Space 115	.....	10 x 20	"
Space 401	.....	10 x 28	"
Spaces 500 501	.....	Special	
Spaces 201 to 212	.....	10 x 16	"
Spaces 301 to 310	.....	10 x 15	"
Spaces 311 to 348	.....	10 x 12	"
Space 387	.....	35 x 6	"
All other spaces	.....	10 x 10	"

Exhibition Classes Arranged as Follows.

- A—Plants.
- B—Cut Blooms.
- C—Boilers and Heating Apparatus.
- D—Greenhouse Structures.
- E—Florists' Supplies.
- F—Bulbs, Seeds and Garden Requisites.
- G—Miscellaneous.

Please read the rules governing this exhibition.

Address all communications to John Young, Supt. Trade Exhibition, 53 West 28th Street, New York City.

First Come! First Served!

The Superintendent of Trade Exhibits reserves the right to allot space in other sections if the designated section is sold on receipt of order for space.

INTERNATIONAL FLOWER SHOW.

All details as to arrangement etc., of the International Flower Show, to be held under the auspices of the Horticultural Society of New York and the New York Florists' Club at the Grand Central Palace, New York, March 15-22, now an annual event in New York have been completed. The Flower Show committee are now meeting each Monday and will continue to do so until the close of the Show.

The Rose Gardens and Rock Gardens which were the sensational features of the exhibition held last Spring will again have a prominent place in the Main Hall. The Park Department of the city will this year be represented by exhibits from two Boroughs. From the Central Park, New York City, greenhouses there will be a large group of palms, foliage and plants in flower; from Prospect Park, Brooklyn, greenhouses an extensive display of cactus; this exhibit will be arranged to show as near as possible how these plants grow in their native state and under natural conditions and will have suitable accessories and surroundings.

As an added attraction brought about mainly through the influence of

Frederic R. Newhold, there will be an exhibit from the Botanical Garden, Bronx Park, which promises to be of unusual interest. The Flower Show management appreciate the valuable services of Mr. Newhold in advancing the interests of the Flower Show on every occasion possible. Space accommodations both in the competitive and trade sections are causing much concern and it may yet be necessary to use the third floor of the Palace, if it will be available at the time of the Show.

The ladies of the Red Cross will conduct a tea garden on similar lines as last year only on a far more pretentious scale. The souvenir program under the supervision of Chairman T. A. Havemeyer will also have many new and attractive features and will consist of two hundred pages, one hundred devoted to valuable informations and cultural notes prepared by leading horticulturists and will also contain many illustrations. Of the one hundred pages set aside for advertisers, about sixty have already been reserved. Trade tickets are now on sale, also a special ticket available for colleges, schools and institutions and

the advance orders for these tickets indicate a tremendous sale. Thirty sketches were submitted in the Poster contest and Miss Thelma Cudlipp was declared the winner and awarded the cash prize of one hundred dollars.

Charles H. Totty, chairman of the schedule committee announces the scale of points adopted for rose gardens, the same to apply, as far as possible on rock, bulb and spring gardens; 40 points to be considered for artistic design, general effect and accessories; 20 points for variety; 20 points for cultural perfection; 20 points for practicability. The final schedule is now in course of preparation and will be distributed about March 1st.

Upwards of sixty representative firms have reserved liberal space in the trade section and are arranging to make attractive exhibits. Space rentals in this section to date amount to over thirteen thousand dollars, a very creditable showing, and as the available space is limited it will be necessary for intending exhibitors to make immediate arrangements if they desire favorable accommodations.

JOHN YOUNG, Sec.

CLEVELAND AS IT WAS.

My attention has been called to an article recently appearing in a New York florists' publication entitled "Tales of a Traveler," and the particular locality covered by the traveler was noted as being "Around Cleveland," my native city and former home. The tale of this "Traveler" was not a little astounding. His declaration that up to the time he landed from "a rickety old tub of a lake boat," Cleveland had "no claim of especial recognition" was most emphatically a stunner. When I was born Cleveland's population was 6,000, and 49 years after (the date our traveler landed there) it was 260,000, "a mere town" (?), and which ten years later was the largest city in the great state of Ohio. No sane person knowing these facts would look upon the statements made in the paper referred to as other than an unwarrantable slander upon noble men and women who devoted their energies to the upbuilding of their homes and of their city, and this slur upon their memories I cannot allow to pass unnoticed. No one who knows Cleveland and its history would do otherwise than cast it aside as the production of a malicious mind or word of an ignorant one.

At that time, I admit that lower River street where the "rickety old tubs" landed was not attractive. The tremendous amount of team traffic precluded any other than firmest of paving, differing none from the water front streets of our other large cities, and the hotels in that neighborhood were not of the highest class, but at the same time, one, if observant, must have seen evidences of a business activity far and beyond "a spirit of let-well-enough-alone." But passage on a "rickety old tub" was not compulsory on anybody, for there were palatial steamers, the finest in the world, in endless procession daily through Lakes Erie, Huron and Superior. Had "Traveler" gone up Superior street hill into that part of the city where its business other than forwarding was transacted, he could have found hotels such as the Stillman, Forest City, Weddell, Kennard, American and many others, the equal in every respect, save possibly in size, of the Astor of New York, Tremont of Boston or Girard of Philadelphia. That he did not chose to do so can hardly be charged to Cleveland.

Those "unprogressive" pioneers of Cleveland dug a waterway by which the waters of the great lakes found their way to the Gulf. A canal boat could be loaded at Cleveland and its cargo discharged on the New Orleans levee. Was the construction of the Ohio canal in 1832, 309 miles long from Cleveland to Portsmouth on the Ohio river, the conception of a non-progressive type of men?

A few years before our traveler made his landing I could have shown him the remnants of the first railroad built in northern Ohio. Primitive though it was, as were most railways in the early days, yet it was the beginning of what in connection with its maritime and internal waterway developments brought about in later years the wonderful growth and development of the city. Is it not foolish, therefore, to declare that the men of those days did not suspect that the city they were

BURPEE'S ANNUAL



We reviewed this publication briefly last week. We might add that it increased in size 22 pages as compared with last year's edition. The new things listed make a tempting array for the ambitious gardener. It is un-

doubtedly one of the best catalogues ever put out by the Burpee house. The New York Sun of Sunday, Dec. 24 devoted a large space to a special illustrated article relative to the novelties listed therein.

laboring for in these great improvements would grow in influence, population and wealth? Note their farsighted policy when they struggled to unite the immense iron deposits of the Upper Lakes with the coal beds immediately south of Cleveland, and builded a city, of which it may be only necessary to quote a remark by Andrew Carnegie, an authority our traveler will not accuse of unprogressiveness or ultra conservativeness in business matters, that for the resultant of this combination in manufacture of "these products Cleveland is the ideal city of the American continent." What the fathers builded for their posterity, however, was not alone confined to accumulation of wealth. Had our "Traveler" strolled up the hills from the cobblestone paved River street into the beautiful plateau upon which Cleveland is situated, he would have soon discovered why it has been recognized as the city of beautiful homes where art and music, science and literature have ever received a warm welcome. Some years ago another traveler, Bayard Taylor, strolled up and passed the houses of these men who are charged with acting in the spirit of "let-well-enough-alone," and he found what he gave to the world in published writing as his estimate of one Cleveland street, when he said "a view of Euclid avenue was well worth a trip across the Atlantic ocean."

Of Cleveland as it is today and of those loyal sons of the grand pioneers who founded and built it I must not speak, for it is impossible to cover the ground within limited space, but may be pardoned if a little time be asked for in calling attention to what the fathers, sons and grandsons have and are doing in carrying out the plans laid down in line of making a city beautiful in horticulture and floriculture. Even when our "Trav-

eler" was on the deck of the "rickety old tub" he passed the lake front of a park system which must be seen to be appreciated, presented to this "town" by J. H. Wade, an adjoining one by W. J. Gordon and still another by one peculiarly a type of Cleveland unprogressiveness (?) John D. Rockefeller. I say a "type," though not by any means the only one of his generation resident in Cleveland. I single him—for the whole world knows of him—as quite sufficient an answer to any slur upon Cleveland progressiveness. Though not born in Cleveland, he is a product of it. He came out of its schools filled with the energy, pluck and aggressiveness with which the very air seemed filled, a business stimulant. No one who knows anything of the business spirit and the cool, calm, forceful unwearying industry of those with whom as a young man he was advised would be surprised at his success in life. Today, wherever you see in the Forest City a magnificent home or fine estate, wherever it may be, you find buildings covering beautiful paintings and statuary, devoted to education or literature, or whenever you pass imposing structures and are told they are devoted to the alleviation of human distresses or sheltering orphaned children, you will find that they were built and endowed by those who had a thought of the future city and were not content to "let well enough alone." Their posterity, now the bone, sinew and brain of Cleveland, are carrying out to the fullest extent the dream of their ancestors' lives, for which they lived and struggled and following their admonitions spare no effort to make Cleveland bigger, better, more beautiful. How much these loyal sons are doing, what they have already accomplished, and what grand plans for the future are being laid out, only those who know them, who knew their parents

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15 varieties, 3 inch pots.

75c per doz.; \$6.00 per 100; the set of
15 sorts, \$1.00.

Seeds of Our Own Saving

Superb Double Fringed, 75c per 500 seeds;
\$1.50 per 1000 seeds.

Superb Single Fringed, 50c per trade pkt.

Henry A. Dreer

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Philadelphia, Pa.

The above prices are intended for the trade only.



Dreer's Double Fringed Petunia.

before them, who are thoroughly in touch with them, can presume to tell. One thing I know though, a personal indignity they might pass unnoticed, but a word derogatory to a city their fathers built, their birthplace or home, they will resent sharply and keenly.

Nor was the florist industry of a quarter century ago lacking in any of the progressiveness and foresight necessary to place their calling among the honorable and honored industries of the Cleveland of today, in evidence of which I have but to mention such men as Adam Graham, J. M. Gasser, H. A. Hart and others.

In fine, then, as an answer to any charge of lack of progressiveness does it not appear that the grand old builders of the Forest City gave to their descendants the advice and command Pearlmutter impressed upon Abe, "Throw your bread upon the water, Abe; then the chickens will come home to the roost, already."

WILLIAM W. CASTLE.

EXHIBITION AT NEW YORK.

A small but excellent exhibition was held at the American Museum of Natural History, New York, on January 13. Orchids from Mrs. Herbert L. Pratt, violets from Mrs. John H. Flagler, Greenwich, Ct., *Buddleia asiatica* from Mrs. F. A. Constable of Mamaroneck, carnations from James Cox Brady of Gladston, N. J., sweet peas from Mrs. Frederick Frelinghuysen of Elberon, N. J., narcissi from Mrs. H. Darlington of Mamaroneck, and sweet peas from William Shillaber of Essex Fells were among the most interesting exhibits.

The regular meeting of the Florists' Association of Reading, Pa., was held at the home of J. C. Bauder, 932 N. 10th st., on January 5th.

OBITUARY.

John Gale.

Many of the Chicago friends of John Gale of La Grange did not learn of his death on December 13 till some time later, when it was heard with much regret. John Gale was born in Whitechurch, England, Dec. 4, 1847. When 24 years of age he came to America, first locating in Kansas, then ten years later in Chicago and buying a tract of land in the suburb known as La Grange Park. For 27 years Mr. Gale was in the greenhouse business, starting with the growing of vegetables and gradually changing to flowers, making a specialty of asters, and at one time he enjoyed the reputation of being the most successful aster grower in this vicinity. Mr. Gale was highly respected by all who knew him, and during the many years he was in business he made friends who valued him for his integrity. He leaves a widow and two sons, Geo. W. and Fred B. The funeral was from the residence, 628 N. Kensington Ave., La Grange Park, Ill.

George H. Arnold.

George H. Arnold, for many years a prominent market gardener in the Boston district died on January 13 at his home in East Braintree after a long illness. He was 81 years of age.

R. M. Pratt.

Robert M. Pratt, former owner of the beautiful estate in Belmont, Mass., which is now the Oakley Country Club grounds, died at his home in Boston on January 9, aged 79 years. Mr. Pratt was an enthusiastic student and patron of horticulture and his exhibits in old Horticultural Hall, grown and arranged by the late David Allan, were among the most notable of their day.

Arthur Netting.

Arthur Netting, 44 years old, a St. Louis florist, suffered a slight laceration of his head Christmas day, when he stumbled in his home and fell against a radiator. He did not think it was serious, but on January 8th it became painful and he went to the hospital, where he died on Jan. 14th.

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RUTHERFORD, - - NEW JERSEY

During Recess

Henderson Employees Make Merry.

The annual dinner tendered to the heads of departments and travelers for Peter Henderson & Co., marking the opening of the season of 1917, was held at Spilker's, Cortland St., New York, on Thursday evening, January 11th. The menu was witty and suggestive, so much so that we think it worth reproduction here for the edification of our readers.

The program consisted of an address by Mr. O'Mara, "General Manager and Baseball Fan," subject, in part, "The Home Run you made last year will not win this year's Game;" songs by Prof. Guy Hunter; violin solos by A. Mackrell; songs by W. R. Smith; solo on bones and minstrel by J. Black.

Poems written for the Henderson Employees' Dinner:

Panacea for Hycostolivin

The cost of living's jumping, it's mounting to the sky, and you've got to dig more dollars up, for everything you buy. Our Solomons and Wiseacres are doping out the cause; but all they'll do is recommend a brand new set of laws. They say they've donned their thinking caps, and put their heads together, and some of them blame it on the war, and others say it's the weather. Economists put the blame on the "gold" which came to our shore in store untold, and raised the price of beans and spuds; and also duds, for young and old. Now, while politicians dope out schemes to reduce the cost of living, and think "nae doot" there's no galoot will call the bluff they're giving; I'll tell you of another scheme, that all can understand: Get out your spades and rakes and hoes, and cultivate your land. Yes! First and foremost, men themselves must lend a willing hand, if they'd realize the promise of the "increase of the land." So dismiss the legislators, throw their law books on the shelf, and send them kiting home again, let each one help himself.

The Crops Have Failed

"There's not enough o' sunshine to half warm up the frames an' the green flies are beginnin' their ornery ol' games." "The days are far too short, an' the sun's too pale an' wan;" thus in the early spring time wailed the pessimist M. G. man. "Jack Frost has my early plantin' o' spuds, an' I guess I'd better be packin' my duds, an' hike for a place that ain't under a ban," with voice forlorn one April morn groaned the pessimist M. G. man. "Gee! another hard frost, an' the peach buds are all killed; soon, with beetles, bugs an' borers, my fields will all be filled. No! t'aint no use tryin' to kill 'em with poison pot or pan;" thus in the merry month of May moaned the pessimist M. G. man. "The early crops are very poor, an' the prices far from big; I think 't would pay me better to feed 'em to the pig." But city folks must be fed, thus mused the great philan-thropist and grumbler, the pessimist M. G. man. But when the golden Autumn came and prices rose, gee whiz! the pessimist turned optimist, and said, "why this is biz." And now he rolls in money, he's getting all he can; this guy who wailed, "The crops have failed," the prosperous M. G. man.

New York Florists' Bowling Club.

Scores recorded for January 11:

Siebrecht	150	135	143
Jacobson	137	186	155
Ford	181	147	142
Donaldson	167	211	159
Fenrich	143	197	157
Melsem	130	155	188
Kakuda	177	169	139
Scott	145	111	134
Irwin	207	136	

"Coming events cast their shadows before."—Old Proverb.

This card is a sample of what may happen unless "everybody starts a garden."—Vide Speech by T. R.

PUNCH HERE	FOOD CARD	GRAMS OR LITRES
	The holder of this card is entitled to the number of grams or fractions of litres noted in the margin.	
☐	Peace Cocktail a la W. J. B. <small>(Served to those desiring it instead of Martini)</small>	1½ centilitre
☐	Grapefruit au Maraschino	100 grams
☐	Celery Olives Radis <small>(Choice of one)</small>	50 grams
☐	Mock Turtle a l'Anglaise	1 decilitre
☐	Aqua Pura ad lib. or Rhine Wine	1½ centilitre
☐	Huitres a la Bourguigoune	100 grams
☐	Peil Bros. N'tra	1 decilitre
☐	Tournedos de Filet de Boeuf	150 grams
☐	Aux Champignons	
☐	Choux de Bruxelles au Beurre <small>(Substituted for cabbage, none too expensive)</small>	50 grams
☐	Pommes de Terre Parisiennes <small>(Supply very limited)</small>	10 grams
☐	Sorbet au Kirsch	2 centilitres
☐	Poulet de Rooster Roti aux Cresons <small>(Eggs being so expensive, it is verboten to eat chickens of the female persuasion)</small>	150 grams
☐	St. Julien Sauterne <small>(Choice of one)</small>	1 centilitre
☐	Salade de Saison <small>(Crops short, prices high, portions small)</small>	10 grams
☐	Glace a la Vanilla Gateaux Assorted Petit Fours	1 look
☐	Fromage de Brie	1 smell
	Liqueurs Deminuendo Tasse Cigars	
	<small>NOTE—In consequence of the shortage of "Charleston Wakefield" the "DOC" will serve only one cigar.</small>	
BREAD COUPON 100 grams <small>Cut off along the dotted line</small>	<p>This card is authorized by Foodkonsunehmndirektoreasgent. C. C. Littlefield, 1st Ward, N. Y. City, State of N. Y.</p>	
		BUTTER COUPON 5 grams <small>Cut off along the dotted line</small>

CONNECTICUT HORTICULTURAL SOCIETY.

The Connecticut Horticultural Society has made an auspicious beginning for 1917, being addressed on January 12th, in the County Building, Hartford, by Dr. G. P. Clinton of the Connecticut Experiment Station at New Haven.

Dr. Clinton spoke on "The White Pine Rust and the Diseases of Flowering Plants." His remarks covered the history of the study of fungi, and the scientists who devoted the greater part of their lives to the work. The first time fungi was ever studied in a university was in 1870. At the close of his remarks, the members extended a rising vote of thanks to Dr. Clinton. The following members were named as to serve as the executive committee: John F. Huss, Warren S. Mason, C. H. Sierman, W. W. Hunt and Francis Roulier.

This society will hold three flower exhibitions this year. There will be a show in June of hardy flowers, a Dahlia show in September, and a Chrysanthemum show in November. These exhibitions will surpass anything of the kind ever held in previous years.

ALFRED DIXON, Sec.

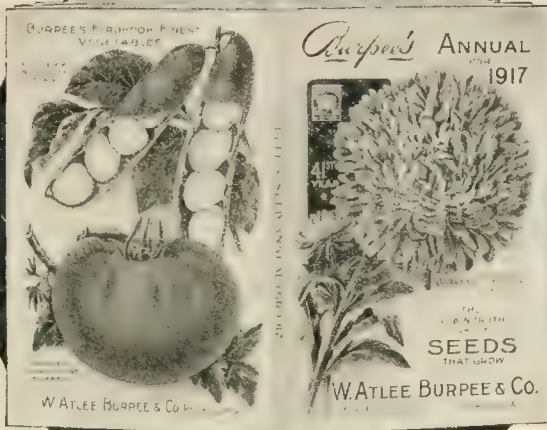
ST. LOUIS CLUBS.

The St. Louis Florists' Club held its regular monthly meeting at the office of the St. Louis Seed Co. Forty members were present. Not much business outside of the routine was transacted. The next meeting will take place at one of the wholesale houses.

The St. Louis Spring Flower Association met at Jules Bourdet's. The guarantee fund is all subscribed and a patrons' fund of \$5,000 is to be started in the near future. The arrangements for decorating Armory Hall are being discussed and plans for a huge fountain with Palm Beach effects in the centre of the hall. The show is being well advertised and success financially is expected.

At the meeting of the Newport (R. I.) Horticultural Society on Tuesday evening, January 9, Arthur Herrington of Madison, N. J., delivered a lecture on "The Iris" before an audience which taxed the seating capacity of Music Hall. Numerous colored slides were shown by a stereopticon operated by Neil McLellan. Following the lecture plans for the August show were discussed.

BURPEE'S SEEDS GROW!



BURPEE'S ANNUAL
The Leading American Seed Catalog

Grounds. These tests are made each year for the purpose of strengthening the bond of confidence between our customers and ourselves.

With the culmination of these forty years we enter the fifth decade of our active business life, with the firm intention of continuing to Better Serve.

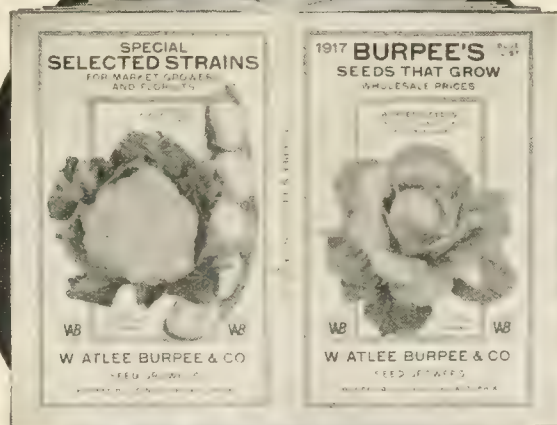
Burpee Annual for 1917

The Leading American Seed Catalog is bigger, better and brighter than ever before. Twenty-two pages have been added, and best of all you will find thirty Burpee Specialties illustrated in color. Never before have we issued a catalog with so many accurate color illustrations. Florists and Market Gardeners, in addition to Burpee's Annual, should have Burpee's Blue List, the Market Growers' Handbook. This is a wholesale price list for commercial planters. Write for these catalogs today. A post-card will bring them.

With the close of 1916 forty years of Burpee Effort have passed into Seed History. These were constructive years, years of careful, intensive, scientific investigation and experimenting. Starting in a very modest way, acre after acre, building after building have been added until today we enjoy the distinction of being the World's largest Mail Order Seed House.

The House of Burpee

in this forty years has introduced more distinct new varieties of Vegetable and Flower Seeds that are now in general cultivation, than have any three other American Seed Firms, but never have we catalogued any one of these varieties until it has passed all the exacting requirements of the Burpee Standard. This Burpee Standard is maintained by rigid tests at Fordhook Farms, America's largest and most complete Trial



BURPEE'S BLUE LIST
The Market Growers' Handbook

W. ATLEE BURPEE & CO.

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Liberal Offer No Fruit Grower Should Miss

Here's proof-positive of our unbounded confidence in "SCALECIDE" as the most effective dormant spray. We will make the following proposition to any reliable fruit grower:

Divide your orchard in half, no matter how large or how small. Spray one-half with "SCALECIDE" and the other with Lime-Sulfur, for three years, everything else being equal. If, at the end of that time, three disinterested fruit growers say that the part sprayed with "SCALECIDE" is not in every way better than that sprayed with Lime-Sulfur, we will return the money you paid us for the "SCALECIDE." Could anything be fairer? Write today for full particulars.

B. G. Pratt Co., Mfg Chemists, Dept. 12, 50 Church Street, New York

CLUBS AND SOCIETIES

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The regular monthly meeting of the Gardeners' and Florists' Club of Boston, held on Tuesday night, Jan. 16, took the form of a Ladies' Night, together with the annual installation of officers. A large number of members and friends were present. The business was brief but six new members were elected. The reports of secretary and treasurer were accepted as very favorable. Secretary Craig reported the addition of 66 new members during the past year. A vote of thanks was given to the retiring treasurer, Peter Fisher. The installation of officers was very ably carried out by A. P. Calder, assisted by W. J. Kennedy acting as conductor. Mr. Calder gave many helpful words of good counsel. Committees were appointed as follows: Exhibits—W. H. Judd, chairman; Robert Cameron, Peter Fisher, Duncan Finlayson, Kenneth Finlayson, Samuel J. Goddard, Julius Heurlin, Eber Holmes, Charles Saunders, D. G. Wyman.

Entertainment—G. W. Hawes, chairman; Donald J. Crighton, James Donald, Harold Edgar, Norman Hunter, John McIntyre, C. J. Stone, G. J. Farley, William Watson.

Membership and Welcome—John F. Briry, chairman; Frederick Cave, R. M. Crocket, A. E. Eisenhardt, Robert E. Montgomery, John Ness, John L. Russell.

Meetings Next Week

Monday, Jan. 22.

Florists' and Gardeners' Club of Rhode Island, Swartz Hall, Providence, R. I.

Gardeners' and Florists' Club of Baltimore, Florist Exchange Hall, Baltimore, Md.

Tuesday, Jan. 23.

Newport Horticultural Society, Newport, R. I.

Tarrytown Horticultural Society, Tarrytown, N. Y.

Wednesday, Jan. 24.

Oyster Bay Horticultural Society, Oyster Bay, N. Y.

Friday, Jan. 26.

Connecticut Horticultural Society, County Bldg., Hartford, Conn.

Monmouth Bounty Horticultural Society, Red Bank, N. J.

Pasadena Horticultural Society, Pasadena, Calif.

People's Park Cottage Gardeners' Association, Paterson, N. J.

Saturday, Jan. 27

Dobb's Ferry Gardeners' Association, Dobb's Ferry, N. Y.

After the officers were installed and each had made a short speech, a very pleasant evening was spent with a concert which included piano solo by Mrs. Fagen, song by Mrs. McKean, xylophone solo by Miss Eisenhardt, song by Miss Consadine, Scotch songs by Mr. Stevenson. Refreshments were then served and dancing was indulged in till midnight.

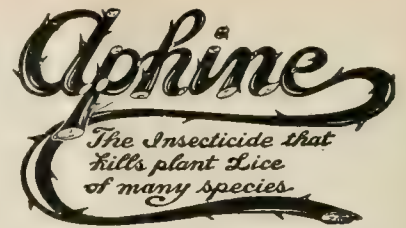
The following awards were made by the Exhibits committee: Chrysanthemum Hamburg White, sport of White Maud Dean, shown by Wm. F. Kasting Co., Buffalo, N. Y.—report of honorable mention; crimson seedling carnation, shown by W. D. Howard, Milford, Mass.—report of honorable mention; carnation seedling Abington, shown by Littlefield & Wyman, North Abington.—vote of thanks; Laelia anceps, shown by George Melvin, Framingham—vote of thanks.

NEW YORK FLORISTS' CLUB.

President Geo. E. M. Stumpp wishes to announce the appointment of J. Harrison Dick, chairman, Alex. J. Guttman and Wm. E. Maynard as the Transportation Committee to make arrangements for the delegates going from New York and vicinity to the Annual Meeting and Exhibition of the American Carnation Society to be held in Indianapolis, January 31st and February 1st.

JOHN YOUNG, Secy.

January 13, 1917.



The Recognized Standard Insecticide. A spray remedy for green, black, white fly, thrips and soft scale.

Quart, \$1.00; Gallon, \$4.50.

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A 12% nicotine solution properly diluted for fumigating or vaporizing.

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Until further notice shipments on our products FUNGINE, VEBHINE and SCALECIDE will be subject to conditions of the chemical market.

Prompt shipments can be guaranteed on APHINE and NIKOTIANA.

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Save your plants and trees. Just the thing for greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrips, Red Spider, Black and Green Fly, Mites, Ants, etc., without injury to plants and without odor. Used according to direction, our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pets. Excellent as a wash for dogs and other animals. Relieves mange. Dilute with water 30 to 50 parts.

½ Pint, 25c.; Pint, 40c.; Quart, 75c.;

½ Gallon, \$1.25; Gallon, \$2; 5 Gallon Can, \$9; 10 Gallon Can, \$17.50.

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BY the "unusual" we do not mean necessarily novelties, but just good sensible productions that are unusual in their very goodness. Choice things you will find in our catalog, that will receive a most hearty welcome to every garden.

Every new thing in this year's catalog, just as in previous years, has stood the Sutton test.

That means, they are choice, dependable, worth while things, every one of them.

The War causes some delays in deliveries, so send your order earlier than usual.

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NASSAU COUNTY HORTICULTURAL SOCIETY.

The monthly meeting was held in Pembroke Hall, Glen Cove, N. Y., on Jan. 10th. E. J. Brown, chairman of the dinner committee reported progress and it is hoped there will be a good turnout at our annual feed to be held Jan. 23rd at the Oriental Hotel, Glen Cove, at 6.30 P. M.

Awards were made as follows: John F. Johnson, 1st for *Primula malacoides*; Harry Goodband, 1st for *poinsettias*; Harry Goodband, 1st for *freesias*. Special mention to James Duthie for *Primula malacoides Townsendi*. Mr. Duthie, the originator, upon the request of the judges, gave a very interesting talk on the history of this valuable variety. Samuel J. Trepass ably read an interesting paper on The Gardener and his Profession, by W. N. Craig, of Brookline, Mass., and James Duthie read an essay, by John Johnson, Mass., entitled "The Japanese Garden," which also proved very interesting.

Exhibits for the next meeting, Feb. 14th, at 2 P. M., are: 12 mixed roses, 6 tomatoes, 1 cyclamen.

HARRY GOODBAND, Cor. Secy.

CLUB AND SOCIETY NOTES.

The sixty-second annual meeting of the Western New York Horticultural Society will be held in Convention Hall, Rochester on January 24-25-26. As this is exclusively a "fruit" society, the premium list is devoted entirely to this class of exhibits. The program of papers and addresses is quite lengthy and comprehensive. Thurs-

day evening will be "Recreation Evening." A moving picture film entitled "Berry Growers of the Pacific Northwest" will be one of the features. Copies of the program and prize list may be had by addressing the Secretary, John Hall, 204 Granite Building, Rochester, N. Y.

H. W. Tinkham of Warren, R. I., was speaker at the second in the series of the winter meetings of the Worcester County, Mass. Horticultural society on Jan. 11. The subject of the lecture was "Better Business Methods for Vegetable Growers," and at the close of the talk a general discussion was held.

The seventy-second annual meeting of the Rhode Island Horticultural Society was held in the Public Library, Providence, on Wednesday, January 17. Dr. Harland H. York gave an illustrated lecture on the White Pine Blister Rust, this new disease which threatens to destroy all the White Pines unless effective methods of control can be applied.

The formation of a market gardeners' association for farmers and producers of Worcester and vicinity was advocated by members of the Worcester County (Mass.) Horticultural society, at the second of its winter meetings on January 11. Consideration of the plan was the result of a talk given by H. W. Tinkham of Warren, R. I., a member of the Market Gardeners' association there. Mr. Tinkham told of the advantages of such an organization, which in Warren numbers 207

farmers who have procured a central place and sell their goods at an agreed price, without resorting to the medium of the middleman.

Visitors' Register

Boston—Charles Schwake, New York.

Philadelphia—C. M. Kimberlin, Santa Clara, Cal.; Miss Marvin, Wilkes Barre, Pa.; John H. Stalford, Bar Harbor, Me.; George Cruickshank, rep. R. & J. Farquhar & Co., Boston, Mass.

Chicago—J. E. Yeats, Champaign, Ill.; Wm. Desmond, Minneapolis, Minn.; F. Breitmeyer, Mount Clemens, Mich.; Edw. Freyling, Grand Rapids, Mich.; Henry C. Forster and A. H. Schumacher, Detroit, Mich.; Geo. Pandell, Ft. Wayne, Ind.

Washington, D. C.—C. C. McDermott, Phila., Pa.; J. A. E. Haugh, Anderson, Ind.; F. D. Vosburgh, Chicago, Ill.; M. Miller, Richmond, Va.; George Maunz, New York, N. Y.; D. T. Connor, Phila., a representative of John Guillemans & Sons, Hillegom, Holland.

Pittsburgh—G. Papendrecht, rep. Bier & Ankersmit, Melle, Belgium; J. Goudy, Henry A. Dreer, Phila.; I. M. Bayersdofer, Phila.; L. Kuyk, of M. Van Waveren & Sons, Ltd., Hillegom, Holland; A. Verney, Rynveld & Cie, Ollioules, France; Julius Dilloff, New York City; Robert Shock, Phila.; Mr. Hall, Burlington Willow Ware Co., Burlington, Iowa.

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Kirby B. White, Detroit Mich.; First Vice-President, F. W. Bolgiano, Washington, D. C.; Second Vice-President, L. L. Olds, Madison, Wis.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.

ANOTHER SEED BILL.

On January 12 Congressman Byrnes of South Carolina introduced in the House a bill No. 20044 to regulate interstate commerce in adulterated and misbranded seeds, etc., which bill was referred to the Committee on Agriculture.

The bill applies to seeds and bulbs of all kinds, defining adulteration to be when seeds or bulbs contain dead seeds or weed seeds, or dead bulbs or any other substance materially reducing the value for seeding or planting purposes. Misbranding is defined, when one kind or distinguishable variety of seed or bulb shall be offered for sale under the name of another kind or distinguishable named variety of seed or bulb. Second, if in package form and the contents are stated in terms of weight or measure, they are not plainly and correctly stated. Third, if the article be falsely labeled or branded as to the State, Territory, locality or country in which it is raised or produced.

Heavy penalties are provided for the first offence, not exceeding \$200 fine; for any subsequent offence not exceeding \$300 or imprisonment not exceeding one year, or both.

The Locked Door on European Shipments.

Latest advices from Europe, received on January 15, report no change on the "locked door" situation for all grass and clover seeds. Exporters are applying about once a week to the powers that be but no permits have been secured so far. It was thought a month ago that spinach would get through on a seventy-five per cent. basis but subsequent results are showing only twenty-five or less. On the whole the situation is very gloomy and famine prices for what little is left are the order of the day.

One Week's Imports.

Imports at the port of New York, of horticultural material, for the week ending January 5, were recorded as follows:

Bulbs—Azores, \$85; France, \$93; Netherlands, \$5,813; England, \$32; Mexico, \$72.

Plants—Azores, \$55; Denmark, \$526; France, \$421; Netherlands, \$1,126; England, \$4,035; Ireland, \$209.

Red clover seed—France, \$8,580.

Grass seed—Denmark, \$3,118; Russia, \$21,699.

Other seeds—France, \$3,156; Italy, \$5; Netherlands, \$3,309; Denmark, \$217; England, \$953; Hongkong, \$119; Japan, \$1,636.

Nitrate of soda—Chile, \$195,554.

Other fertilizers—England, \$7,380; Scotland, \$391.

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CANNA ROOTS

	100	1000
AUSTRIA	\$3.00	\$25.00
BRANDYWINE	3.00	27.50
EGANDALE	3.00	27.50
FLORENCE VAUGHAN	3.00	25.00
GUSTAVE GUMPPER	5.00	40.00
KING HUMBERT	4.00	35.00
MME. CROZY	3.00	25.00
PINK BEAUTY OF HUNGARY	7.00	60.00
PRESIDENT MCKINLEY	3.25	30.00
QUEEN CHARLOTTE	3.00	25.00
ROSEA GIGANTEA	10.00	85.00
WYOMING	3.00	27.50

Also all Other Desirable Varieties.

BEGONIA BULBS

SINGLE. Separate colors...	\$2.75	\$25.00
SINGLE. Mixed colors...	2.50	22.50
DOUBLE. Separate colors...	4.25	37.50
DOUBLE. Mixed colors...	4.00	33.00

GLADIOLUS BULBS

	100	1000
AMERICA	\$1.75	\$15.00
AUGUSTA	1.85	16.00
BRENCHLEYENSIS	1.40	12.00
GLORY OF HOLLAND	2.50	20.00
HALLEY	1.50	12.50
HOLLANDIA	2.00	17.50
MAY	2.25	20.00
MRS. FRANCIS KING	1.50	13.50
PINK AUGUSTA	2.25	20.00
PINK PERFECTION	4.00	35.00
SHAKESPEARE	4.50	40.00
MICHELL'S SPECIAL		
White and light mixture.	1.75	16.00

Also all Other Desirable Varieties.

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"Seeds with a Lineage" All Varieties
Thoroughly tested at our trial grounds, Raynes Park, London, England. Send for Catalogue

CARTERS TESTED SEEDS, Inc., 166 Chamber of Commerce Bldg., Boston, Mass.

CATALOGUES RECEIVED.

S. M. Isbell & Co., Jackson, Mich.—Isbell's Tested Seeds, 38th year, Field, Garden and Flower Seeds. Plants, Small Fruits, etc. Cover pages in appetizing colors.

Knight & Struck Company, New York—Heatherhome Seed and Plant Book for 1917. In artistic embossed blue and white cover, as before, 336 pages of which 22 are devoted to plant and seed novelties, domestic and imported.

Peth & Duggan, New York City.—1917 Descriptive Catalogue of Vegetable and Flower Seed. A very attractive and creditable publication in contents and workmanship. Index on inside of front cover is a pleasing innovation.

H. G. Hastings Co., Atlanta, Ga.—Seed Catalogue No. 50, Spring, 1917. Specially intended for circulation in the South. Profusely illustrated and from appearances a business getter. "Bank Account" cotton on front cover and "Dixie" vegetable collection in color on back.

J. Bolgiano & Son, Baltimore, Md.—General Catalogue for 1917. "Glory" Tomato in color glory on front cover page and a variety of attractive vegetable and flower novelties on back cover challenge attention. The book is devoted mainly to vegetable seeds and is profusely illustrated.

H. A. Dreer, Philadelphia, Pa., Dreer's Garden Book—This is the seventy-ninth annual edition of this popular publication. Like its predecessors it is an ideal seed and plant catalogue and strictly up-to-the-minute in its specialties. The cover is plain and tasteful—fawn color with no adornment other than gold embossed lettering. It comprises 288 pages of descriptive text and splendid half tone engravings. There are four full pages of color portraits of Cardinal Climber, H. T. Rose, Los Angeles, Long spurred Hybrid Aquilegias and Improved Vegetables. In quality of paper and typographical work this book is one of the very best of the season.

PIN MONEY MUSHROOM SPAWN

8 lb. for \$1.00

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42 Vesey St., New York

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DWARF DOUBLE PEARL TUBE-ROSES. Special prices on application.

CALADIUM ESCULENTUM BULBS.

LILIUM MULTIFLORUM, 7 to 9, 9 to 10 and 10 to 11. Attractive prices on application.

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Please tell us how many you can use and we shall make prices accordingly.

Selected strains of Ageratum, Alysum, Aster, Begonia Erfordi, Calendula Meteor, Prince of Orange, Candytuft, Celosia, Centaurea, Cobaea scandens, Cosmos, Gypsophila, Lobelia, Petunia, and Verbena. Special prices on the above on application.

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8/10, 200 to a case.....	\$80.00 per 1000
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St. Catherines, Ont. Robert L. Dunn, 104 Queenston street.

Providence, R. I. T. J. Johnston & Co., removing to 107 Washington St.

Kansas City, Mo. Central Floral Co., East 11th st., succeeding Miss Edith Roberts.

Chicago, Ill. H. T. Meinersmann, 1008 Belmont ave., succeeding A. C. Kohlbrand.

Wheeling, W. Va. Spragg Floral Co., Iure Hotel block, succeeding Virginia Flower Shop.

NEWS NOTES.

Oak Lane, Philadelphia, Pa. Fire destroyed the three greenhouses of Frank Birnbauer on Wednesday morning, January 10th, causing a loss of about \$2,000.

Washington, D. C. Thomas M. Dunbar and G. Wolt have purchased the florist business of O. A. C. Oehmler, 1329 G st., and will conduct business under the firm name of Oehmler Floral Co., Inc.

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Auto delivery of Designs and Flowers to
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Stock and Work First Class

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ANDERSON service means fresh, sturdy
Stock and prompt deliveries in BUFFALO,
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Albany, N. Y.—H. G. Eyres, 106 State
St.

Albany, N. Y.—The Rosery, 23 Steuben
St.

Albany, N. Y.—William C. Gloeckner, 97
State St.

Boston—Thos. F. Galvin, 1 Park St.

Boston—Penn the Florist, 124 Tremont
St.

Buffalo, N. Y.—S. A. Anderson, 440 Main
St.

Buffalo, N. Y.—Palmer's, 304 Main St.

Chicago—William J. Smyth, Michigan
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Cleveland, O.—J. M. Gasser Co., Euclid
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Cleveland, O.—Adam Graham & Sons,
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Houston, Tex.—Kerr, The Florist.

Kansas City, Mo.—Samuel Murray, 1017
Grand Ave.

Los Angeles, Calif.—Howard & Smith,
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New London, Conn.—Reuter's.

New York—J. H. Small & Sons, 505 Mad-
ison Ave., at 52d St.

New York—David Clarke's Sons, 2139-
2141 Broadway.

New York—Alex. McConnell, 611 5th Ave.

New York—Young & Nugent, 42 W. 28th
St.

New York—A. T. Bunyard, 413 Madison
Ave., at 48th St.

New York—Dards, N. E. corner 44th St.
and Madison Ave.

New York—Max Schilling, 22 W. 59th St.

New York—G. E. M. Stumpp, 761 Fifth
Ave.

New York—Thos. F. Galvin, Fifth Ave.,
at 46th St.

Norwich, Conn.—Reuter's.

Omaha, Neb.—Hess & Swoboda, 1415
Farnum St.

Passaic, N. J.—Edward Seecy.

Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave., N.

St. Louis, Mo.—Fred C. Weber, 4326-28
Olive St.

St. Paul, Minn.—Holm & Olson, Inc.
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Orders for the TWIN CITIES and for all
Northwestern points given prompt at-
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KERR ORDERS FOR TEXA
HOUSTON, TEXAS
The Florist Member F.T.D. Association

NEWS ITEMS FROM EVERYWHERE

CHICAGO.

L. D. Eastman & Sons, of 180 East 77th street has bought the Michal store, 1168 East 63rd street.

The Chicago Flower Growers' Association have the distinction of being the only firm now supplying home-grown pussy willows. The stock is fine.

Mrs. Fred Stollery, who was severely injured when the automobile in which she was riding was struck by a street car and thrown through a store window, is recovering. Her sister was killed.

Its central location attracts many exhibitors of new varieties to Chicago. J. E. Yeats of Champaign, Ill., showed his new red rose Sarah Yeats last week and the favorable impression took the substantial form of several good orders.

One of the local papers devoted an editorial to the seedsman's cause last week by a denunciation of the practice of congressmen, who send free packets of seeds to their constituents. It called forth an answer favoring the stand of the editor.

Another eastern man has cast his lot with Chicago. Frank Farney, for many years with M. Rice & Co. of Phila., is now in charge of the department of infants' specialties at A. L. Randall's, another new line which this enterprising firm is manufacturing.

Herman W. Rogers, for twelve years with Weiland & Risch, left for his former home in Detroit on Monday, where Mrs. Rogers has lately fallen heir to considerable property. The trade will miss Mr. Rogers, who was always courteous and as head of the sales department made many friends. It remains to be seen whether the city of his earlier life will be able to hold him from the choice of his mature years.

The bill board nuisance had a big set back, and promoters of the City Beautiful scored a point where the United States Supreme Court decided in favor of the legality of the Chicago ordinance, requiring the consent of three-fourths of the owners interested, in order to erect a bill board. The decision was reached Jan. 15th and steps to pass a still more stringent ordinance are expected to follow.

Among the big decorations of the past week were those of the Coliseum, for the Allied Bazaar, which called for hundreds of plants and great quantities of green, and the Armour dinner in the gold room of the Congress Hotel. The size of the coliseum makes only large showy effects desirable, but at the Congress much originality was displayed. A Robin Hood effect was carried out by the lavish use of birch bark, etc., and the expense is said to have been well up toward the four figure mark.

BOSTON.

William J. Magee, florist, of Salem, has been confined to his bed for the last week with a severe attack of pleurisy. He has sincere wishes of a host of friends in the Boston market. fine.

The Brookline Chronicle in an issue of recent date published a very persuasive plea by James Grimshaw Scott in favor of the *Epigaea repens* as the official state flower of Massachusetts.

The Schedule of Prizes for the exhibitions in Boston for 1917 has been issued by Secretary Wm. P. Rich of the Massachusetts Horticultural Society. Eleven shows are provided for, of which the spring exhibition, March 21 to 25 and the Outdoor Flower Show in June are the principal events.

W. E. Coburn and R. E. Dixon, chairman and secretary respectively of the Everett Park Commission, have handed in their resignations to Mayor Mullen after a verbal altercation with that dignitary. Mr. Coburn has served on the board for nineteen years and Mr. Dixon has been a member for nearly ten years.

Sam J. Goddard, is bending his efforts to having Boston well represented at the meeting of the American Carnation Society at Indianapolis. Mr. Goddard announces special rates for a party of ten, but the delegation is not to be limited to this number if he can possibly obtain further application for tickets. Among those planning to go are Mr. and Mrs. William McAlpine, Mr. and Mrs. George Noyes, and J. W. Howard.

The Brookline selectmen will hold a joint convention with the park commissioners on Jan. 23 to elect a successor to Albert L. Lincoln, who resigned from the park commission about two weeks ago. The selectmen last week decided that as it was so near the annual town election they would not call a joint convention. It is understood, however, that the commissioners desired to elect a successor to Mr. Lincoln at once.

The first of a series of free lectures on horticultural subjects, which will be given under the auspices of the Massachusetts Horticultural Society every Saturday afternoon until and including March 31, was given on January 13 by Loring Underwood, in Horticultural Hall, before a large audience, on "Home Gardens." Mr. Underwood illustrated his lecture with the new process of "direct color" photography, illuminated and thrown upon the screen by an electrically lighted stereopticon.

WASHINGTON, D. C.

An automobile of J. H. Small & Sons was quite badly damaged as a result of being hit by another car driven by a woman automobilist.

William A. Royal, a chauffeur for Gude Bros. Co., narrowly escaped serious personal injury last week in an automobile collision. Both machines were damaged.

Uncle Sam is in need of a gardener at the U. S. Propagating Gardens. The Civil Service Commission will hold an examination for that position on January 27. Further information

can be obtained upon application to the Commission.

The S. S. Pennock-Meehan Company has been offering some of the finest white lilac blooms ever seen in Washington. They are being cut from plants grown in this country and it is said that Washington florists are exceedingly lucky in being able to get these as florists in other states have been unable to get good lilacs on account of the lateness of importations.

The Oehmler Floral Company, Inc., will hereafter conduct the business of O. A. C. Oehmler at 1329 G St. N. W., with the latter as secretary and manager. The change came when James M. Dunbar and G. Wolt, of Alexandria, Va., bought the business of Mr. Oehmler. The company will confine itself strictly to retail business, the wholesale stock going to the Leo Nielsen Company, which has for a long time been marketing the stock of the Dunbar Floral Co.

PITTSBURGH.

H. E. Taylor and S. V. Reeves gave interesting talks at the recent meeting of the Farmers' Association at Nixon Station.

Mrs. Gilbert Ludwig, bookkeeper for the Ludwig Floral Company, has been ill for the past ten days with a severe attack of influenza and stomach trouble.

Ralph W. Pinner, manager of the landscape department of the A. W. Smith Co., has arranged for exhibition space at the June Flower Show to be given in Motor Square Garden under the auspices of the Garden Club of Allegheny County.

From all sections of the state word has been received at Harrisburg that large delegations are forming to attend the Agricultural Show January 22-26, and Secretary of Agriculture Charles E. Patton has arranged with the passenger department of the Trunk Line Association for reduced rates. Already many exhibits of apples and corn have been received.

PERSONAL.

Miss Clarissa A. Fuller, for nine and a half years clerk for W. W. Hathaway, florist, Brockton, Mass., has resigned her position.

William Wilder, florist, of Somersworth, N. H., and Carrie Spofford of Vermont, were recently united in marriage. They will reside in Somersworth.

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see how much you can do with a little money when you go straight to
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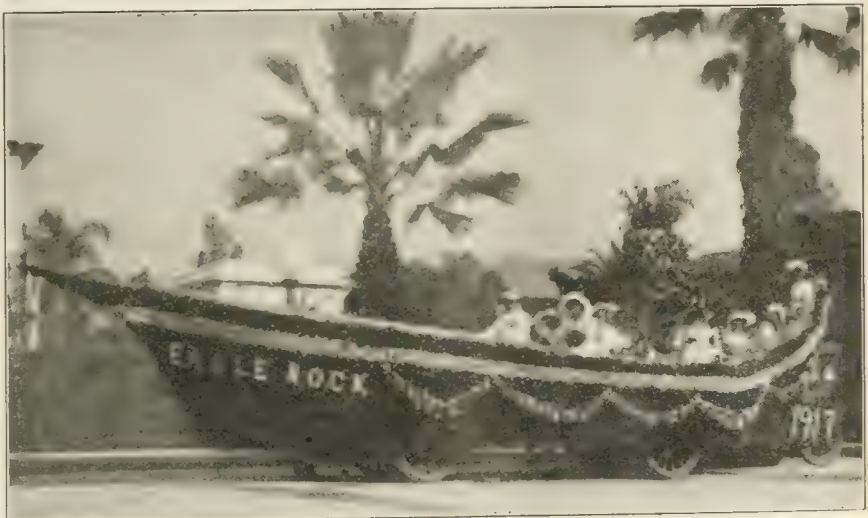
PASADENA'S NEW YEAR CELEBRATION.

Cut flowers by the mile was the unique and beautiful offering to the Goddess of Flora at Pasadena, California, on New Year's Day, 1917. Celebrating its 28th annual Tournament of Roses, the municipality added fresh laurels to its fame as the "City of Roses" by making more gorgeous than ever the floral parade, which this year assumed a national and even international aspect. Lavishly decorated floats, representing Japan, the Philippines, the Hawaiians, China, Assyria, Byzantium and Spain gave colorful variety to the fragrant cavalcade and already the hope is expressed that at the next tournament the world will be circled in the float entry list.

An added feature this year was the hotel division of the parade. In this there were entries from New York, Chicago, Baltimore, Kansas City, St. Louis, San Francisco, Portland, Seattle, Atlantic City and other of the larger cities frequented by travelers.

Few of the 200,000 visitors for the day realized the immense amount of preliminary work necessary to prepare the exquisite but rapidly perishable spectacle. It is probable that a larger proportion of the population of Pasadena "sees out the old and in the New Year" than any city on the continent, this condition being due to the thousands of enthusiasts who work all night at preparing the flower bedecked floats. *The strictest rule of the celebration is that not an artificial flower of any sort may be used in decoration.* Many varieties of the cut flower used wilt so rapidly that their cutting is postponed until the last possible moment. The experts who decorate the floats throughout the night and the early morning hours know to a minute how much time will be required and govern the work accordingly. In awarding the prizes, the judges consider the freshness of the blooms, hence the strenuous effort to utilize every minute before the starting time.

All sections of Southern California



The Fair Maids of Eagle Rock Sailed to Pasadena in a Boat of Flowers.

are drawn upon for flowers, as there is no community so small that it does not boast of a float in the annual flower orgy of a land of flowers. It is not unusual for the towns of least size to win the finest trophies, as frequently they have the largest assortment of blooms from which to select their decorations.

No expense is spared in many of the entries, notably those of wealthy winter residents who maintain elaborate

gardens where all varieties of tropical and semi-tropical plants are propagated. Priceless orchids mingle with the wild poppies, California's state flower, and hundreds of varieties of roses lend color and fragrance to the splendid spectacle. In order to insure plenty of blooms, for its own display, the city of Pasadena maintains a garden of two acres, in which are grown flowers especially for the midwinter tournament.

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We can save you thirty-three cents on every dollar

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The Best \$25.00 per 100
Fancy \$20.00 per 100
Firsts \$15.00 per 100

At our prices every Retail Florist can handle them. If you buy 25 at one time we bill them at the 100 rate.

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CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

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Florists' Requisites

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10,000...\$1.25. 50,000...\$3.00. Sample free.
For sale by dealers.

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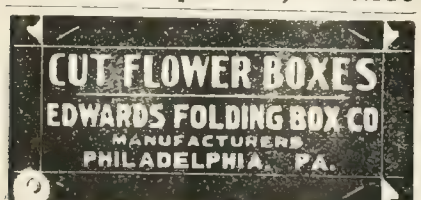
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a Strictly Wholesale Business
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If interested, send us your name and address for our weekly price list

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WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON Jan. 18		ST. LOUIS Jan. 15		PHILA. Jan. 15	
Roses						
Am. Beauty, Special	40.00	to 60.00	40.00	to 50.00	40.00	to 50.00
" " Fancy and Extra	15.00	to 30.00	20.00	to 30.00	20.00	to 35.00
" " No. 1 and culls	6.00	to 10.00	.....	to	4.00	to 15.00
Russell, Euler, Mock	6.00	to 20.00	8.00	to 25.00	5.00	to 25.00
Hadley	6.00	to 15.00	5.00	to 12.00	5.00	to 20.00
Arenberg, Hoosier Beauty	4.00	to 10.00	5.00	to 12.00	5.00	to 15.00
Ward	8.00	to 15.00	4.00	to 10.00	5.00	to 10.00
Killarney, Radiance, Taft	4.00	to 15.00	4.00	to 8.00	4.00	to 12.00
Ophelia, Sunburst, Hillingdon	8.00	to 15.00	5.00	to 12.00	5.00	to 12.00
Kay	6.00	to 15.00	.....	to	6.00	to 20.00
Carnations	3.00	to 8.00	2.00	to 3.00	4.00	to 5.00
Cattleyas	35.00	to 75.00	50.00	to 60.00	50.00	to 75.00
Dendrobium formosum	.....	to 50.00	.....	to	40.00	to 50.00
Lilies, Longiflorum	8.00	to 12.00	12.50	to 15.00	10.00	to 12.50
Lilies, Speciosum	8.00	to 10.00	.....	to .....	.....	to
Callas	12.00	to 18.00	.....	to 15.00	10.00	to 12.50
Lily of the Valley	4.00	to 6.00	.....	to 6.00	4.00	to 6.00
Snopdragon	2.00	to 6.00	.....	to	4.00	to 10.00
Daffodils	3.00	to 6.00	4.00	to 6.00	4.00	to 6.00
Narcissi, Paper White	2.00	to 3.00	.....	to 2.00	2.00	to 3.00
Roman Hyacinths	3.00	to 4.00	.....	to 2.00	3.00	to 4.00
Freesia	3.00	to 6.00	.....	to	4.00	to 6.00
Tulips	4.00	to 5.00	.....	to	5.00	to 6.00
Calendulas	2.00	to 4.00	.....	to	3.00	to 5.00
Sweet Peas	1.00	to 1.50	.50	to 1.50	1.00	to 2.50
Violets	.50	to 1.00	.25	to .50	.25	to 1.00
Marguerites	.50	to 2.00	.....	to .....	.50	to 2.00
Gardenias	20.00	to 30.00	.....	to	10.00	to 35.00
Adiantum	.....	to 1.00	.....	to 1.00	1.00	to 1.50
Smilax	12.00	to 20.00	.....	to 15.00	15.00	to 20.00
Asparagus Plumosus, & Spreng. (100 Bchs.)	25.00	to 35.00	25.00	to 35.00	25.00	to 50.00

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568-570 WASHINGTON STREET - BUFFALO, N. Y.

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ROSES, VALLEY and WHOLESALE CUT FLOWERS
CARNATIONS GROWER of
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VALLEY

Splendid quality, sprays well flowered, in two grades.

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Flower Market Reports

BOSTON No one ventures to predict when stock will begin to pour in plentifully. At any rate it hasn't this week. Business has been slightly depressed because of the high current prices. The cold weather is bearing the greater part of the blame. Short roses are at a premium, eight cents being asked for nine-inch lengths. Longer grades are slightly quieter. Extras and specials are fairly active. Matchless and Pink Delight led the carnations, which are even scarcer than roses. \$10.00 per hundred is not an unusual figure. Morning Glow is showing up well. White stock has been shown the preference for the first time since last fall. Primroses have made their appearance and seem to be decidedly welcome. Bulbous stock, especially paper whites, has done nobly during the week and has remained steady in price. Callas are "worth their weight in gold." Lilies are rather sluggish. Stevia, freesia and wall-flowers have had a busy week, the first two especially. String smilax is scarce. Corn flowers are surprisingly in demand.

BUFFALO Zero weather, shortage of stock and business only normal. The wholesalers and retailers are having no end of trouble—trains late, arrival of frozen stock, bad conditions in delivery. Business very uneven, some days plenty of it and other days a scarcity and the stock most wanted to fill orders fails to come in, or is received in such condition that it cannot be used. It is hoped that things will change for the better at an early day.

CHICAGO Business is moderate, and if it were otherwise, there would not be stock enough to carry it on, so conditions are fair for mid-winter. Intensely cold weather and a shortage of coal, together with little sunshine have not been conducive to hurrying on another crop of roses, which at

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI Jan. 15	CHICAGO Jan. 16	BUFFALO Jan. 15	PITTSBURG Jan. 8
Roses				
Am. Beauty, Special.....	50.00 to 60.00	40.00 to 60.00	..... to 50.00	50.00 to 75.00
" " Fancy and Extra.....	30.00 to 40.00	20.00 to 40.00	25.00 to 35.00	30.00 to 40.00
" " No. 1 and culls.....	8.00 to 25.00	5.00 to 10.00	4.00 to 6.00	8.00 to 25.00
Russell, Euler, Mock.....	..... to	8.00 to 30.00	8.00 to 15.00	8.00 to 20.00
Hadley.....	..... to .....	..... to	5.00 to 15.00	..... to
Arenberg, Hoosier Beauty.....	6.00 to 15.00	..... to	6.00 to 15.00	8.00 to 10.00
Ward.....	5.00 to 10.00	5.00 to 10.00	4.00 to 6.00	6.00 to 15.00
Killarney, Radiance, Taft.....	4.00 to 10.00	3.00 to 12.00	4.00 to 15.00	4.00 to 15.00
Ophelia, Sunburst, Hillingdon.....	6.00 to 12.00	5.00 to 15.00	4.00 to 12.00	8.00 to 15.00
Kay.....	..... to .....	..... to	10.00 to 15.00	..... to
Carnations	3.00 to 4.00	1.50 to 3.00	3.00 to 5.00	2.00 to 4.00
Cattleyas	50.00 to 60.00	60.00 to 75.00	40.00 to 50.00	60.00 to 75.00
Dendrobium formosum.....	..... to .....	..... to .....	..... to	40.00 to 50.00
Lilies, Longiflorum	12.00 to 15.00	8.00 to 12.50	10.00 to 12.00	..... to 15.00
Lilies, Speciosum	6.00 to 10.00	..... to	4.00 to 6.00	..... to
Callas	10.00 to 12.00	..... to	8.00 to 12.00	..... to
Lily of the Valley.....	..... to 7.00	5.00 to 6.00	6.00 to 7.00	..... to 6.00
Snopdragon	4.00 to 6.00	6.00 to 10.00	5.00 to 10.00	4.00 to 10.00
Daffodils.....	..... to	3.00 to 4.00	5.00 to 6.00	4.00 to 6.00
Narcissi, Paper White.....	..... to 3.00	2.00 to 3.00	2.00 to 3.00	3.00 to 4.00
Roman Hyacinths.....	..... to 3.00	3.00 to 4.00	2.00 to 3.00	3.00 to 4.00
Freesia	3.00 to 4.00	5.00 to 6.00	3.00 to 5.00	4.00 to 6.00
Tulips.....	..... to	3.00 to 4.00	3.00 to 5.00	4.00 to 6.00
Calendulas	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 6.00
Sweet Peas	75 to 1.50	.75 to 2.00	1.00 to 2.00	.50 to 3.00
Violets.....	.75 to 1.00	.50 to 1.00	.40 to .75	.50 to 1.25
Marguerites.....	.75 to 1.00	.75 to 1.00	1.00 to 2.00	1.00 to 3.00
Gardenias.....	..... to	25.00 to 30.00	15.00 to 25.00	..... to
Adiantum.....	..... to 1.00	..... to 1.00	1.00 to 1.25	1.00 to 1.25
Smilax	15.00 to 20.00	12.50 to 20.00	15.00 to 18.00	15.00 to 20.00
Asparagus Plu. & Spren. (100 Bhs.)	25.00 to 35.00	25.00 to 50.00	25.00 to 50.00	30.00 to 50.00

this writing would be more than acceptable. Social events are the means of using up much of the best stock that is being cut now, and aside from the local demand, shipping trade is considered good by most of the large houses. Carnations are still lagging and some fine stock stands unsold on the counters at the close of each day. Daffodils are coming on as fast as they can be used. The stock is good, and its lasting qualities are making sales cut into those of carnations. The violet situation is not quite satisfactory and some wholesalers put it much stronger than that. Sweet peas are selling well. There are some good lilies that sell readily. Calendulas, freesias, tulips in quantity, paper whites, snapdragons and pussy willows are all to be had, as well as plenty of greens.

During the latter part of last week and the first part of this week the supply of stock slowed up very greatly and now in most lines

is barely equal to the demand. Roses at times run short of actual needs. Carnations, too, are selling up pretty well. The receipts in sweet peas have increased until this flower is plentiful. Enough lilies and narcissi may be had to supply wants. Violets, lily of the valley and orchids are all in a fair supply and meet with a fairly steady demand.

The flower market is in a rather wobbly and uncertain state from day to day and it is not easy for one to forecast what a few hours may bring forth. Crops are gradually becoming heavier on many things, especially on bulbous material and in the aggregate the daily receipts are much heavier than they were two weeks ago, while the quality averages up very satisfactory all down the line with the exception of American Beauty roses which are as usual at this time of the year, well below par.

(Continued on page 89)

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Laurel, Hemlock, all Decorative Evergreens.
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FINE ROSES, FANCY CARNATIONS

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NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS

	Last Half of Week ending Jan. 1 1917	First Half of Week beginning Jan. 15 1917
American Beauty, Special	25.00 to 50.00	60.00 to 75.00
" " Fancy and Extra	10.00 to 20.00	30.00 to 40.00
" " No. 1 and culls	4.00 to 8.00	4.00 to 15.00
Russell, Euler, Mock	5.00 to 15.00	4.00 to 15.00
Hadley	5.00 to 35.00	6.00 to 25.00
Arenberg, Hoosier Beauty	4.00 to 12.00	4.00 to 15.00
Ward	5.00 to 12.00	4.00 to 12.00
Killarney, Radiance, Taft	5.00 to 10.00	4.00 to 10.00
Ophelia, Sunburst, Hillingdon	6.00 to 12.00	6.00 to 15.00
Kay	5.00 to 12.00	4.00 to 12.00
Carnations	2.00 to 6.00	3.00 to 5.00

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We have 22 years' experience behind us,
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Consignments Solicited

MAURICE L. GLASS, Treasurer

Flower Market Reports

(Continued from page 87)

Very little change

PHILADELPHIA has occurred in conditions here during the past week. Stock generally has been on the scarce side and prices have held firm. About the only exceptions were lily of the valley and daffodils. There are rather too many of these for the demand. Long roses were also more plentiful than called for, while the shorter lower-priced grades cleaned up much better. Altogether the situation is encouraging. Carnations are now at near their best and rivalling the rose in popular favor.

"Stuff scarce," one

PITTSBURGH hears emphatically spoken on every hand. Business continues very good, considering the fact that when the retailers arrive at the wholesale houses they find much the same condition of supplies as did the famous old Mother Hubbard who went to the cupboard. The would-be-obliging wholesalers divide up of their wherewithall, as well as possible, with the result that nobody is satisfied. Of course, this condition of matters applies chiefly to roses, which seem especially wanted just now, although there is none too plentiful a supply of anything. Good tulips are now coming in, as well as very good narcissi, both white and yellow, which are helping to care for the shortage. Lilies are a little on the short side. Some lily of the valley and mignonette are coming in from the outside and finding their equivalent at fair prices. On the whole, prices are considered reasonable.

At time of writing win-

ST. LOUIS try weather is on hand.

Roses are very scarce and good prices are obtained for all good stock. Carnations are more plentiful but good stock has a tendency to increase in price. Cloudy and cool weather will cause a let-up in violets. These flowers used as corsages do not move as easily in severe weather. Sweet peas are in demand and sell well. Narcissi are moving fairly well. American Beauties are coming in bull-headed and shapeless in many instances.

There has been

WASHINGTON quite a scarcity of

stock but practically no change in prices. The shortage of roses made good the sale of other material. There was some little increase in the receipts of carnations and these also sold up close. Tulips, freesia and other spring flowers were noted on the market for the first time this season and they sold almost as fast as they were received. Some few chrysanthemums are still to be had and poinsettias are also on the market. Cypridiums are very plentiful and meet with slow sale. Lily of the valley has dropped from \$8 to \$6 per hundred with the sale reported slow. Gardenias are in fair demand. Gladiolus Augusta is to be had in very limited quantities. The sale of mignonette and snapdragon has been somewhat slow while the call for narcissus has dropped off very perceptibly.

PATRICK WELCH, WHOLESALE FLORIST

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American Beauties, Orchids, Valley, Carnations. All the novelties in the Cut Flower Market furnished on short notice. Prices quoted on application. No retail orders accepted. Flowers shipped out of Boston on early trains.

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Tel. Farragut 3066

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Jan. 13 1917		First Half of Week beginning Jan. 15 1917	
Cattleyas.....	20.00	to 60.00	20.00	to 50.00
Dendrobium formosum.....	.....	to 50.00	.....	to 50.00
Lilies, Longiflorum.....	10.00	to 12.00	10.00	to 12.00
Lilies, Speciosum.....	4.00	to 8.00	4.00	to 8.00
Callas.....	18.00	to 25.00	12.00	to 25.00
Lily of the Valley.....	3.00	to 5.00	3.00	to 5.00
Snapdragon.....	3.00	to 5.00	3.00	to 4.00
Daffodils.....	4.00	to 6.00	4.00	to 6.00
Narcissi, Paper White.....	2.00	to 3.00	2.00	to 3.00
Roman Hyacinths.....	2.00	to 4.00	2.00	to 4.00
Freesia.....	2.00	to 4.00	2.00	to 4.00
Tulips.....	2.00	to 6.00	2.00	to 6.00
Calendulas.....	3.00	to 6.00	3.00	to 6.00
Sweet Peas.....	1.00	to 2.00	1.00	to 2.00
Violets.....	.75	to 1.25	.75	to 1.50
Marguerites.....	1.00	to 1.50	1.00	to 1.50
Gardenias.....	8.00	to 25.00	8.00	to 25.00
Adiantum.....	.75	to 1.00	.75	to 1.00
Smilax.....	15.00	to 30.00	15.00	to 20.00
Asparagus Plumosus, & Spreng (100 bunches).....	20.00	to 35.00	20.00	to 35.00

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is to treat any business entrusted to me in such a fair and liberal manner as to make the customer's relations with me satisfactory and profitable.

TELEPHONES

1623-24-25

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ORCHIDS

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in their Season.

THOMAS YOUNG, Jr., Proprietor

BOUND BROOK, N. J.

Buyer's Directory and Ready Reference Guide

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Display Advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

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APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
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ASPARAGUS

Asparagus Plumosus Seedlings, \$1.00 per 100, \$5.00 per 1000. Ready May 1st. COL-LINGDALE GREENHOUSES, Collingdale, Pa.

AZALEAS

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BAY TREES

BAY TREES. Write for wholesale price-list.
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Hitchings & Co., New York City.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
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Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOX TREES

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BOX TREES—Standards, Pyramids and Bush. Price list on demand.
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C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK BRANCH, 8-10 Bridge St.

CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
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Cottage Gardens Co., Inc., Queens, N. Y.
Carnation Cottage Maid.

CARNATION STAPLES

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 1000 for 35c.; 3000 for \$1.00 post-paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

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Peony Dahlia Mrs. Frederick Grinnell.
Stock For Sale.
JOHN P. ROONEY, New Bedford, Mass.

DAHLIAS—Continued

ORDERS BOOKED ANY TIME
For Fall or Spring delivery. Wholesale and Retail. Send for Catalogue. NORTHBORO DAHLIA & GLADIOLUS GARDENS, J. L. Moore, Prop., Northboro, Mass.

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John Wanamaker, Newest, Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to PEACOCK DAHLIA FARMS, Berlin, N. J.

DECORATIVE PLANTS

Julius Roehrs Co., Rutherford, N. J.
Choice Flowering and Foliage Plants.
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A. Leuthy & Co., Roslindale, Mass.
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For Plants and Cuttings get our prices before ordering elsewhere. Our guarantee with every order. Write for a copy of our latest Plant Bulletin.

Asparagus	Cyclamen	Primula
Begonias	Daisies	Smilax
Bulbs	Dracaena	Snapdragons
Calceolaria	Ferns	Violets
Calendula	Geraniums	
Cineraria	Hydrangeas	

S. S. PENNOCK-MEEHAN COMPANY,
Philadelphia, 1608-1612 Ludlow St.
Baltimore, Franklin and St. Paul St.
Washington, D. C., 1216 H St., N. W.
New York, 117 W. 28th St.

FERNS

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Greenhouse glass, lowest prices. JOHN-STON GLASS CO., Hartford City, Ind.

GLASS—6 x 8, 8 x 10, 10 x 12, 10 x 14, \$1.00 per box. Other sizes at factory prices. C. N. ROBINSON & BRO., Dept. 29, Baltimore, Md.

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Peerless Glazing Point.
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GOLD FISH

Gold fish, aquarium plants, snails, castles, globes, aquarium, fish goods, nets, etc., wholesale. FRANKLIN BARRETT, Breeder, 4815 D St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

GREENHOUSE BUILDING MATERIAL

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NURSERY STOCK

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Holland Grown Roses, Plants and Shrubs.

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ORCHID PLANTS

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Bound Brook, N. J.
Importers and Growers of Orchids.
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Dreer's Double Petunias.
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PEONIES

Peonies. The world's greatest collection.
1200 sorts. Send for list. C. BETSCHER,
Canal Dover, O.

PECKY CYPRESS BENCHES

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Guttman & Raynor, Inc., New York City.
Rose Prima Donna (Mme. Paul Euler).

ROSES, CANNAS AND SHRUBS.
THE CONARD & JONES COMPANY,
WEST GROVE, PA.

A. Koloos & Co., Gouda, Holland; also
L. Vanheerde, care Maltus & Ware,
14 Stone St., New York City.

SASH

STANDARD HOTBED SASH, with cross
bar, 85c. each; lots of 25 and over, 80c.
each. Satisfaction guaranteed or money
refunded. Glass 6 x 8, 8 x 10, 10 x 12 or
10 x 14, \$1.90 per box of 50 sq. ft.
C. N. ROBINSON & BRO., Dept. 29, Balti-
more, Md.

SCARLET SAGE SEED

D. Landreth Seed Co., Bristol, Pa.

SEASONABLE PLANT STOCK

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SEEDS

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Seeds with a Pedigree.
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W. E. Marshall & Co., New York City.
Seeds, Plants and Bulbs.
For page see List of Advertisers.

August Rolker & Sons, New York City.
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Burnett Bros., 98 Chambers St., New York.
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Leonard Seed Co., Chicago, Ill.
Seeds and Seed Service.
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American Bulb Co., Chicago, Ill.
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Thomas J. Grey Co., Boston, Mass.
Seeds, Bulbs, Implements.
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Roman J. Irwin, New York City.
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S. D. Woodruff & Sons, New York City and
Orange, Conn.
Garden Seeds.
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Fottler, Fisk, Rawson Co., Boston, Mass.
Seeds for the Florist
For page see List of Advertisers.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. LAGER
& HURRELL, Summit, N. J.

SWEET PEA SEED

Ant. C. Zvolanek, Lompoc, Calif.
Gold Medal of Honor Winter Orchid Sweet
Peas.
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VASES

H. Bayersdorfer & Co., Philadelphia, Pa.
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VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
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VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
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The John A. Evans Co., Richmond, Ind.
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VERMICIDES

Aphine Mfg. Co., Madison, N. J.
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WHEAT SHEAVES

H. Bayersdorfer & Co., Philadelphia, Pa.
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WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
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WIREWORK

Reed & Keller, New York City.
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WILLIAM E. HEILSCHER'S WIRE
WORKS, 264 Randolph St., Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
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Baltimore

The S. S. Pennock-Meehan Co., Franklin
and St. Paul Sts.
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Welch Bros. Co., 226 Devonshire St.
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Patrick Welch, 262 Devonshire St.
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Welch's, 280-282 Devonshire St.
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H. M. Robinson & Co., 32 Otis St. and 2
Winthrop Sq.
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Brooklyn

Wm. H. Kuebler, 23 Willoughby St.
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Buffalo, N. Y.

William F. Kasting Co., 568-570 Washing-
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Chicago

Poehlmann Bros. Co., Morton Grove, Ill.
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J. A. Budlong, 184 North Wabash Ave.
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Zech & Mann, 30 East Randolph St.
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Michigan Cut Flower Exchange, 264-266
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New York

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W. F. Sheridan, 133 W. 28th St.
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P. J. Smith, 131 West 28th St.
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Hentz & Nash, 55 and 57 W. 26th St.
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Charles Millang, 55 and 57 West 26th St.
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W. P. Ford, 107 W. 28th St.
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J. K. Allen, 118 West 28th St.
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Traendly & Schenck, 436 6th Ave., between
26th and 27th Sts.
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Badgley & Bishop, Inc., 34 West 28th St.
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Paul Meconi, 57 West 28th St.
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Woodrow & Marketos, 37 and 39 W. 28th St.
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Riedel & Meyer, Inc., 49 West 28th St.
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George C. Siebrecht, 109 W. 28th St.
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John Young & Co., 53 West 28th St.
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M. C. Ford, 121 West 28th St.
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United Cut Flower Co., Inc., 111 W. 28th St.
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Guttman & Raynor, Inc., 101 W. 28th St.
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Gunther Bros., 110 West 28th St.
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Henry M. Robinson Co., 55-57 W. 28th St.
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W. R. Siebrecht, 114 West 28th St.
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Herman Weiss, 106 West 28th St.
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J. J. Coan, 115 West 28th St.
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William Stuart Allen Co., 53 West 28th St.
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B. S. Slinn, Jr., 55-57 West 26th St.
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Philadelphia

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Edward Reid, 1619-21 Ranstead St.
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The S. S. Pennock-Meehan Co., 1608-20
Ludlow St.
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Richmond, Ind.

E. G. Hill Co.
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Rochester, N. Y.

George B. Hart, 24 Stone St.
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Washington

The S. S. Pennock-Meehan Co., 1216 H St.,
N. W.
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New Offers In This Issue**BURPEE'S SEEDS THAT GROW.**

W. Atlee Burpee & Co., Philadelphia, Pa.
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CYCAS, BASKETS, WAX GOODS.

Boston Floral Supply Co., Boston, Mass.
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FERNS, ETC.

F. R. Pierson, Tarrytown, N. Y.
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GARDENIAS.

The Leo Niessen Co., Philadelphia, Pa.
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GREENHOUSE CONSTRUCTION.

Metropolitan Material Co., Brooklyn, N. Y.
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**"HAMBURG LATE WHITE" CHRYS-
ANTHEMUM.**

William F. Kasting Co., Buffalo, N. Y.
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LILY OF THE VALLEY.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
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MICHELL'S BULBS

Henry F. Michell Co., Philadelphia, Pa.
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MUSHROOM SPAWN.

Wm. Elliott & Sons, New York City.
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**NEW RED ROSE, DONALD MAC-
DONALD.**

Robert Scott & Sons, Sharon Hill, Pa.
Agent for Alex. Dickson & Sons.
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**SPRAYING RESULTS GUARAN-
TEED.**

B. G. Pratt Co., New York City.
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SUTTON'S SEED CATALOGUE.

Sutton & Sons, Reading, England.
Represented by
Winter, Son & Co., New York City.
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**THE LATEST NEW CARNATION,
"CORNELL."**

Ira G. Marvin, Wilkesbarre, Pa.
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TWO BOLTS AND WHY.

Lord & Burnham Co., New York City.
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WHOLESALE FLORIST.

Joseph S. Fenrich, 51 West 28th St.,
New York City.
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THE NUT-GROWER

The unique monthly publica-
tion which furnishes reliable
and interesting up-to-date in-
formation regarding the value
of pecans and other edible nuts
and how to grow them for profit.

Subscription, \$1.00 per year

Sample Copy Free

THE NUT-GROWER

No. 2 Francis St.

WAYCROSS, GA.

WANTS, FOR SALE, ETC.

Advertisements in this column
one cent a word. Initials count
as words. Cash with order. All
correspondence addressed "Care
HORTICULTURE" should be sent
to 147 Summer St., Boston.

HELP WANTED**Traveling Salesmen**

Representing Seed and Bulb Establish-
ments and calling on Country Estates, can
increase their income considerably by
taking up a PROFITABLE SIDE-LINE.
Write for particulars and with full infor-
mation regarding territory you cover, etc.
Address

X Y Z., care of HORTICULTURE

WORKING FOREMAN WANTED—On
gentleman's country place twenty miles
from New York City. Must have experience,
knowledge of plants and shrubs, live stock,
vegetable garden, general farming, farm
machinery and understand managing men.
State age, nationality, past experience, what
references can be given and salary desired.
Only men willing to work for results need
apply. Single man preferred. Address
Box 85, Mamaroneck, N. Y.

WANTED—An experienced greenhouse
grower and propagator. Address "W. J. H.,"
care of Horticulture.

SITUATIONS WANTED

WANTED—By American, honest, temper-
ate, steady worker, situation with florist to
learn greenhouse management or business,
Mass. or N. H. preferred. Address H. E.
BRYANT, 277 Park St., Peterboro, Ontario,
Canada.

SITUATION WANTED as foreman,
private or Commercial. Experienced in
roses, carnations, mums, Sweet Peas, vio-
lets, cyclamens, etc.; also fruit under glass.
Age 29; good references. "H. W.," care of
HORTICULTURE.

CARNATION GROWER

Is open to engagement. Able to bring up
run down place or improve going concern.
Has grown A-No. 1 flowers many years for
best of Boston trade. Is businesslike, am-
bitious, absolutely reliable and honest.
Good manager of help. Gilt edge refer-
ences. Address "RESULTS," care of
HORTICULTURE.

FOR SALE**SECOND HAND GREENHOUSE
MATERIAL.**

Glass 16 x 24, \$4 per box. Steam piping:
1 in., per foot, 3 cents; 1½ in., per foot,
5 cents (about 1000 feet); 3 in., per foot,
20 cents. Also sash, purlings, gutters, etc.
POST OFFICE BOX 313, Belmont, Mass.

MISCELLANEOUS

WANTED TO RENT with privilege of
buying 10,000 to 20,000 ft. glass, with dwell-
ing on place. New England or Massachusetts
states preferred. State full particulars in
first letter. Address T. C., care of HORTI-
CULTURE.

WANTED TO RENT OR BUY, near
Boston, 15-20,000 feet of glass, with dwell-
ing on place. Please explain it all in first
letter. Address "CARNATIONS," care of
HORTICULTURE.

In writing to Advertisers kindly mention Horticulture

Est. 1765

Pot Makers for a
Century and a Half**HEWS****STRONG
RED
POROUS****POTS**

Inc. 1904

World's Largest
ManufacturersStandard, Azalea, Bulb, Orchid, Fern, Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.Write for Catalogue
and Discounts**A. H. HEWS & CO., Inc., Cambridge, Mass.**Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.**KING CONSTRUCTION COMPANY, North Tonawanda, N. Y.****GREENHOUSES**

We Claim Maximum Strength and Minimum Shadow. Investigate

BOSTON OFFICE: 118 State St., Boston, Mass.

PHILADELPHIA OFFICE: Harrison Building, 15th and Market Sts., Philadelphia, Pa.



If you need a boiler in a hurry telephone or telegraph at our expense

KROESCHELL BOILERS

SEND FOR CATALOG

Kroeschell Bros. Co., 466 W. Erie St., Chicago**NEW CORPORATIONS.**

Dansville, N. Y. Ten Cent Nurseries, capital stock, \$5,000. Incorporators, H. A. Burdick, C. E. and F. W. Wells.

Eddyville, N. Y. Amawalk Nursery, Inc., capital stock, \$100,000. Incorporators, M. E. Mones, B. V. Ande and W. Smith.

Wheeling, W. Va. Spragg Floral Co., capital stock, \$5,000. Incorporators, S. L. and F. M. Spragg, J. Blankensop and J. W. Casey.

Columbia City, Ind. Columbia City Floral Co., growers and retailers, capital stock \$25,000. Incorporators, A. J. Wagoner and D. R. Livenwood.

Cleveland, O. Schoen Floral Company, capital stock, \$15,000. Incorporators, F. J. Schoen, Harry Edmonds, Geo. J. Heiss, C. Clark, E. M. Holmes.

Spokane, Wash. Spokane Flower Pot Co., capital stock, \$100,000. In-

**NON-KINK WOVEN HOSE**

In any length (one piece) with couplings, 15c. per foot. Unequalled at the price.

**Hose Valve, 70c.**

All brass except the hand wheel. Has a removable leather disk which is easily replaced to keep water tight. Stuffing box prevents leaks at stem.

METROPOLITAN MATERIAL CO.

1392-1414 Metropolitan Ave., Brooklyn, N. Y.

DREER'S "Riverton Special" Plant Tub

No.	Diam.	Ea.	Doz.	100
10	20 in.	\$1.60	\$17.50	\$145.00
20	18 in.	1.45	15.50	130.00
30	16 in.	1.10	12.25	100.00
40	14 in.	.70	7.75	60.00
50	12 in.	.50	5.50	45.00
60	10 in.	.40	4.40	35.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.

HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.

corporators, G. Bewley, H. E. Reimers, W. F. Page, G. Pearson and W. E. Parmelee.

Shenandoah, Iowa. Mount Arbor Nurseries. Capital Stock, \$300,000. Officers: E. S. Welch, pres.; E. E. May, vice-pres. and treas.; R. M. Gwinn, sec'y.; F. W. Welch, supt.; R. N. Adair, asst. supt.

**GREENHOUSES BUILDING OR
CONTEMPLATED.**

Bangor, Me. A. J. Loder, one house, completed.

Reno, Pa. D. A. Manrodd, 60 ft. geranium house.

Newport, R. I. Jose Pereira, Garfield st., house 20x160.

Passaic, N. J. John J. Lunsted, Moninger house 42x350.

E. Providence, R. I. P. W. S. Brownell, Forbes ave., addition.

PATENTS GRANTER.

1,212,053. Grass Seed Harvester. Woodson J. Hatheway, Stanberry, Mo.

1,212,097. Hotbed. Joseph Nicastrì, New York, N. Y.

GLASS CLOTH

A transparent waterproof fabric, guaranteed to generate about the same warmth and light as glazed sash, or money back. For all forcing purposes. Sample 3x6 feet. 50c. prepaid.

PLANT FORCERS**TURNER BROS., Bladen, Nebraska****LOUIS COHEN****Window and Plate Glass**

86 1st Avenue, NEW YORK CITY

Double Thick 16/24 for the Florist

A SPECIALTY. WRITE ME FOR PRICES.

STANDARD FLOWER**POTS**

If your greenhouses are within 500 miles of the Capitol, write us; we can save you money.

W. H. ERNEST

29th & M Sts., Washington, D. C.

Evans 20th Century Arm

Most up-to-date arm on the market. Proof that it is better than any other is that others tried to imitate it. Write for our 1916 catalog just out.

JOHN A. EVANS CO.
Richmond, Ind.

FOLEY MATERIALS

ARE THE BEST FOR

Iron Frame, Pipe Frame or Wood Frame GREENHOUSES

Estimate and Sketch Submitted Promptly

THE FOLEY GREENHOUSE MFG. CO.

3275 West 31st Street, CHICAGO, ILL.

CYPRESS GREENHOUSE STOCK

PECKY CYPRESS BENCH STOCK
HOT BED SASH

Ask for Circular D and Prices

THE A. T. STEARNS LUMBER COMPANY

NEPONSET, BOSTON

SHARP, PARTRIDGE & CO.

Are Leaders in

GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS. CHICAGO, ILL.

The Only Perfect

Liquid Putty Machine

Will last a life-time.

\$1.25 EACH

Adjustable—can and frame separate—easily cleaned. Frame all one piece, of malleable iron. More practical and more easily operated than any other.

SEAL TIGHT LIQUID PUTTY
\$1.35 per Gallon in 10 Gallon lots
\$1.40 per Single Gallon

METROPOLITAN MATERIAL CO.
1392-1414 Metropolitan Ave., Brooklyn, N. Y.

Dreer's Peerless Glazing Points
For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts. The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid. Samples free.
HENRY A. DREER,
714 Chestnut Street,
Philadelphia.

FULL SIZE No 2

GET OUR CATALOGUE
On Ventilating Apparatus and Greenhouse Fittings

ADVANCE CO., RICHMOND, IND.

MASTICA

For Greenhouse Glazing

USE IT NOW

F. O. PIERCE CO.
12W. BROADWAY
NEW YORK


Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.



HOTBED SASH at 80c. each
Made of best grade Gulf cypress.
Glazed Hotbed Sash from \$1.65 up.
Double Light Sash up to \$4.00.
We carry a large stock of all sizes.
Write us for estimate
S. JACOBS & SONS
1359-1385 Flushing Avenue BROOKLYN, N. Y.

The Florists Hail Association rate of insurance from Nov. 1st, 1916 to Nov. 1st, 1917 will be twenty cents per hundred square feet of single thick glass and eight cents per hundred square feet of double thick glass. For particulars address JOHN G. ESLER, Sec., Saddle River, N. J.

METROPOLITAN EFFICIENCY ASSURES SUCCESS



These two Metropolitan Greenhouses were erected by us for Mr. G. Mabon of Norfolk, Conn.

Mr. Mabon placed his order for these greenhouses with this organization because he understands the Metropolitan method of construction, the success of which is entirely due to its efficiency, economy and speed.

No matter how large or how small the job, this organization strives constantly to increase the value of the owner's investment in his greenhouse.

Put Your Greenhouse Problems Up to Us

We go anywhere in the U. S. to submit plans and prices

METROPOLITAN MATERIAL CO.

Patented Greenhouses.

1392-1414 Metropolitan Ave., Brooklyn, N. Y.

GLASS

GREENHOUSE MATERIAL HOT-BED SASHES

Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

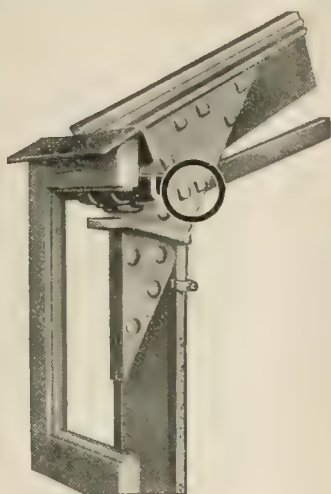
PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

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Difficult and rejected cases specially solicited. No misleading inducements made to secure business. Over 30 years' active practice. Experienced, personal, conscientious service. Write for terms. Address,

SIGGERS & SIGGERS
PATENT LAWYERS
Box 9, National Union Building
Washington, D. C.



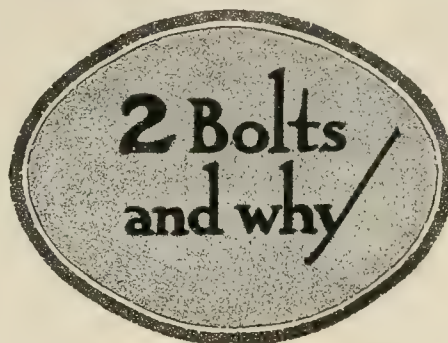
The side truss member running between column and post, is double bolted to the gusset plate.



The main centre truss member is secured to the strut and tie fitting by 2 bolts.



The main truss is secured to the column cap by 2 bolts.



This truss joining plate holds the four truss members rigidly in exact place. The two bolts prevent any twisting or turning.



The gable purlins are fastened to the gable rafters by double angle knees with double purlin bolts.

"VIBRATION"; "Give-and-take"; "Come-and-go"; call it what you will; its the very thing you don't want in your greenhouse.

With it, your glass loosens.

Without it, it doesn't.

We build the house that doesn't.

The 2 bolt method is one reason why. You can't make a framing joint of two or more members, and make that joint rigid by using only one bolt on each side of the joint. No matter how tight you screw it up, there will be some "give."

"Gives" never grow less.

We are dead against "Gives."

Every important framing joint or connection in our Iron Frame house, has **two bolts** on at least one side—sometimes on both.

Making twice the number of bolt holes costs money.

Using twice the number of bolts costs more money.

Which would you rather do: pay less money for less bolt holes and bolts, and have loosened glass? Or pay more and have your glass stay tight?

Our stay tight way, may cost a bit more to start with; but a lot less to end with.

The cost of a house is not just what it costs to buy. But what it costs to buy, in addition to what it costs to keep it bought.

Ever think of it, just that way?

When you are ready to talk building, say when and where, and we'll be there.

Lord & Burnham Co.

Builders of Greenhouses and Conservatories

SALES OFFICES:

NEW YORK
42nd Street Bldg.

BOSTON
Tremont Bldg.
TORONTO, Royal Bank Bldg.

PHILADELPHIA
Widener Bldg.

CHICAGO
Rookery Bldg.

ROCHESTER
Granite Bldg.
MONTREAL, Transportation Bldg.

CLEVELAND
Swetland Bldg.

FACTORIES: Irvington, N. Y. Des Plaines, Ill. St. Catharines, Canada.

Vol. XXV
No. 4
JAN. 27
1917

HORTICULTURE



Eureka Giant Sweet Peas

C. W. Ward of Cottage Gardens, Eureka, Calif., in His Element.

COTTAGE MAID

A Sport of Mrs. C. W. Ward, of a Pleasing Shade of Flesh Pink



A Few Reasons Why You Want It:

It has the habit and growth of Ward
It is the best keeper and shipper of all
It is unsurpassed in quality of bloom
It will not fade in bright weather
Its color sells it on sight
It is fine under artificial light

COTTAGE MAID is a Market Carnation
The public wants it

YOU NEED IT!

Price: \$12 per 100; \$100 per 1000.
February Delivery.

Cottage Gardens Co., Inc.

ORIGINATORS

Queens, New York

Plants and Cuttings

Ready for Immediate Sale

	Per 100	1000
ASPARAGUS Sprengeri, 2 1/4-in. pots	\$3.00	
3-in. pots	6.00	
ABUTILON Savitzi, 2 1/4-in. pots	3.00	
ACHYRANTHES, Rooted Cuttings	1.00	\$8.00
AGERATUM, Blue and White, Rooted Cuttings	1.00	8.00
COLEUS, 20 sorts, Rooted Cuttings	1.00	8.00
CUPHEA, Rooted Cuttings	1.00	
DRACENA Indivisa, 4-in. pots	15.00	
DRACENA Indivisa, 5-in. pots	25.00	
FEVERFEW, Double White, Rooted Cuttings	1.50	12.00
FUCHSIAS, Rooted Cuttings	1.50	14.00
FUCHSIAS, 2 1/4-in. pots	3.00	
GERMAN IVY, Rooted Cuttings	1.00	
GERANIUMS, Rooted Cuttings	1.75	15.00
HELIOTROPE, Light and Dark	1.00	8.00
LOBELIA, Double Blue, Rooted Cuttings	1.50	
LEMON VERBENAS, 2 1/4-in. pots	1.00	
LANTANAS, 2 1/4-in. pots	3.00	
MOONVINE, White, Rooted Cuttings	2.00	
SALVIA, New sorts, Rooted Cuttings	1.50	12.00
SALVIA Splendens and Bedman	1.00	8.00
TRADESCANTIA, Rooted Cuttings	1.50	
VINCA Variegata and Elegans, 4-in. pots	10.00	
VINCA Variegata and Elegans, 2 1/4-in. pots	3.00	

WOOD BROTHERS
FISHKILL, N. Y.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

JULIUS ROEHRS CO.

HEADQUARTERS FOR

Choice Flowering and Foliage Plant Stock

FOR IMMEDIATE OR FUTURE DELIVERY

Conservatories stocked

Rare Orchids a Specialty

Send for Catalog

RUTHERFORD, - - NEW JERSEY

CHARLES H. TOTTY
CHRYSANTHEMUMS
MADISON, N. J.

A. N. Pierson, Inc.
CROMWELL, CONN.

Bedding Plants and Roses

When writing to Advertisers kindly mention Horticulture

FERNS, ETC.

NEPHROLEPIS TEDDY, JR., 2 1/4-in. pots, \$6.00 per 100; 3 1/4-in., \$15.00 per 100; 6-in., \$6.00 per dozen; 8-in., \$12.00 per dozen.
NEPHROLEPIS SMITHII, 3 1/4-in. pots, \$3.00 per dozen; 5-in., \$6.00 per dozen.
NEPHROLEPIS MUSCOSA, 3 1/4-in., \$3.00 per dozen.
FICUS ELASTICA, 50c, 75c, and \$1.00 each.

F. R. PIERSON, Tarrytown, N. Y.

ELMER D. SMITH & CO.
CHRYSANTHEMUMS

Ask for Catalogue
ADRIAN, - - - MICH.

GERANIUMS

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NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toil, we ought to blame the culture, not the soil."—Pope.

Rooting Begonias

Mr. J. J. M. Farrell

Dear Sir:—Your illustration of growing Begonia Gloire de Lorraine from leaf I have tried for several years and have not had any success, so I have gone according to your instructions in HORTICULTURE of Oct. 28, 1916, and I have a few hundred well rooted. What I would like to know is if it is proper to pot them up now or wait until they show the growth above the sand bed. I think it would be good to let them remain in the sand bed, and then again they have nothing to live on, so what can you advise me to do as soon as possible. Gloire de Lorraine roots good; Turnford Hall roots bad; Cincinnati roots fairly good; Mrs. J. Peterson roots not so good.

J. M. B.

The Semi-Tuberous, or Socotrana section includes all the best of the flowering begonias. Gloire de Lorraine and Cincinnati hold first place from the end of October until the end of January and the same culture will do the rest to perfection also. They can be increased from seed, top growth and leaves as cuttings, but are generally increased from leaf cuttings. The best time to take leaf cuttings is during November. The most important point is to have a propagating bed, with an even bottom heat of from 80 to 85 degrees, and atmospheric heat of 10 to 15 degrees lower. Use 2½ to 3-inch of clean sharp sand over perfect drainage and cover with sash. Select only the cleanest, best ripened, and healthy leaves. Insert, including the leaf stalk, about one-half its length, and make firm. See that the leaves do not rest flat on the sand as it will cause them to damp off easily. Keep the sand in even moisture, but do not try daily waterings, or you will lose a large part by rot. Give shade for about 3 to 4 weeks when a little sun will help to dry up the bench and prevent the spread of fungus. In 8 to 10 weeks they should be sufficiently rooted to be potted into 2-inch pots, using a compost of new loam, leaf mold, peat and well decayed cow manure in equal parts, with enough of sand to make it porous. Give temperature from 60 to 65 degrees at night and ten degrees higher by day, placing them well up to the glass. They require a moderately humid atmosphere with a gentle spraying in the morning on bright days. When fairly pot-bound they should be shifted into 3-inch pots. By the end of January give shade for a few hours at mid-day. In prolonged rainy weather keep the atmosphere in a dry state. During February is a good time to put in some more cuttings for smaller stock for the filling of pans, etc., for Christmas. When they are rooted treat as directed above. Fresh air must never be entirely excluded in good weather. Judicious pinching should be done once in a while. Don't wait until green-fly or other insects pay you a visit, but use light fumigations and weak solutions of nicotine about every ten days regularly. During March and April they will need some more shade to keep the foliage from burning. From this out any sort of cultural encouragement before the heat of the summer months will tell plainly on the stock in the early autumn and whatever degree of size and vigor is now imparted by special good treatment is a permanent gain, while any neglect at this

season is a certain loss which cannot be made good at any time later on. Summer culture will be taken up later on.

Amaryllis

Amaryllis bulbs will now show signs of being ripened and some probably starting to push their flower spikes. To provide a succession it would be advisable to bring some in every ten days. It is not necessary to repot all the bulbs but they should be examined to see that the drainage is efficient. Where the roots are active and sound and the pots of sufficient size for the bulbs, they will require only a liberal top dressing of rich mulch. It can be made equal parts of loam and well rotted manure and sand. Give them a good syringing two or three times a day on bright days and keep the compost moist. Give enough ventilation to keep the temperature during the day at from 70 to 78 degrees. After top dressing or potting the plants should have a temperature of at least 60 degrees at night. As the flower spikes advance they will stand liquid manure twice a week.

Flowering Shrubs for Easter

All hard forcing of shrubs is better to be done before they start to open their flower buds. A temperature of about 60 degrees at night is better than a higher one, and when they are fairly well out about 50 degrees will give substance as well as better keeping qualities. Place them where they will receive plenty of sunshine. Give them a spray overhead two or three times a day to help the eyes to swell, and continue it daily for the next month or until they show signs of opening up their flowers. It takes from seven to ten weeks for different shrubs to bloom.

Foliage Plants

The bulk of these need an annual potting or surface dressings. Frequently plants can be shaken out of the pots, the balls picked over, fresh drainage given and some new surface soil and the same pots will do for another year. Nearly all do well in a compost containing some fern fibre or peat in addition to loam, but this is not really necessary. The end of January and up to the end of February is an excellent time in which to do any necessary overhauling among these plants. Marantas like some peat, as do Anthuriums, such as Andreanum and colored varieties like Veitchii, but crotons and dracaenas do well in pure loam with a little old manure and sand added. Young stock rooted during the present winter should have the benefit of some bottom heat and be kept freely syringed on all good days. Keep the house where these newly potted plants are rather close and moist.

Odontoglossums

During winter odontoglossums should get as much of old Sol's rays as possible. It is utterly wrong to give them a dark north space where in mid-winter no sun will strike them for weeks. Odontoglossums are again

picking up and will, barring unforeseen contingencies, give a fine crop of flowers the coming spring. It is also a mistake to give them too low a night temperature. We can educate them to 50 or even 55 degrees, and when given this night temperature and plenty of sun, it is astonishing how much progress they will make. Do not keep the house too damp during dull murky weather, but during bright weather you can damp down two or three times a day. On all good days see that the air is changed even if it is only for an hour at a time as these orchids are fresh air subjects. During bright days give them a spraying over head.

Sowing Palm Seed

Palm seed is very irregular in germination. While some will start in three or four weeks others may not show for nearly a year. See that perfect drainage is provided for, as this is very essential. They should have about 65 degrees, with a good bottom heat. After covering the bottom of the bench with potsherds, put a layer of sphagnum over all, and then fill with about three inches of a compost of equal parts of soil, peat and

leaf mold. The seeds should be covered from a half inch to one inch according to their size. It is well to employ some sashes to cover the bench as it helps to regulate the atmospheric moisture while controlling the temperature, thereby keeping them in a uniform state. When the first leaf has expanded they should be potted into small pots and grow on.

Reminders

Get the late sweet peas planted out before they get pot-bound.

Sow *Thunbergia alata* early in order to have good plants for filling baskets in May.

Start early any dahlias of which the stock is short, in order to have strong plants and plenty of them.

After cutting heavily keep the adiantums a little on the dry side. A short rest will give more vigorous growth later.

Tagetes signata pumila is one of the finest annuals for bedding, so it should be included in your seed order, but do not sow it too early.

Next week: Bedding Plants; Carnation Cuttings; Chrysanthemums; Fibrous-Rooted Begonias; Primulas; Reminders.

Alpine Asters

Alpine asters rank high among the showiest spring and early summer flowering perennials of medium and low growth. Their comparatively large star-shaped flowers, in clear lavender, borne on single stems and appearing in great abundance, never fail to draw attention. *Aster subcœruleus*, the tallest species, is a very handsome subject for the mixed border when planted close together in clumps of from six to twelve plants. The bright blue, daisy-like flowers with brownish-yellow center on stems nearly 18 inches long, during June, are valuable for cutting.

Alpine asters may be easily raised from seed sown in a cold frame during March or April. Transferred into the open ground they thrive best in a light richly manured soil. Proper care should be taken that plantations do not suffer by lack of irrigating during their growing season. Once stunted in growth it takes considerable time to bring the vigor necessary to obtain the floral effect depicted by our illustration. Seedlings flower the second year and as a rule vary somewhat in color and form. This gives us the opportunity for improving our stain by careful selection of the plants we take our seed from. *Aster subcœruleus floribundus*, with large flowers of a beautiful lavender color, offered abroad, is an instance demonstrating the advisability of careful selection.

The species *Aster alpinus* with lavender blue flowers and its latest improvements listed under: *A. alpinus* "Nixe," "Rex" and *alpinus superbus* we know to be



ASTER ALPINUS SUPERBUS AS EDGING

ideal rock garden material. On account of their low and compact habit of growth, they prove invaluable as highly effective edging during May. *Aster alpinus superbus* is also well adapted for slow forcing in pots.

The propagation by dividing old plants should be done right after flowering. Made early in July divisions are re-established plants by fall, ready to be planted on the space where we want them to flower the succeeding spring. For winter protection I prefer leaf-covering.

Richard Roth

Glenside, Pa.

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ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Get the Pots Ready

It will not be long before the first batch of cuttings will be fit to come out of the sand and will be ready for the pots. But will the pots be ready for the cuttings? Do not delay getting the pots washed up if they are still foul from last season. Soak them well in water and run them through the pot washer and get them clean. While washing it will be well to keep in mind that the most important place to clean is right near the top where the surface of the soil will come to when the cuttings are potted. This ring around the pot will be the hardest to wash, too, as here the scum will be the thickest. See that it is all washed off clean so that the new soil will not start getting green on top as soon as the cuttings are potted. Do not use soap or other preparations in the water while washing as these would only soak into the pots and stop up the pores, something which should be guarded against. It will also be best to go over the stock of pots and make sure that all that will be needed later are on hand. The way the pot factories are busy now, and the way the freight lags, orders cannot be placed too early. Use two-and-a-quarter-inch pots for the first potting. The two-inch are too small, as no sooner do the cuttings start, than they have to be sifted into larger pots, where with the larger size they can remain for a while. Two-and-a-half-inch pots are too large to use now early in the season. They will be just the thing around the first of April, when the plants can be shifted right into fours from them in May.

The Potting Soil

One cannot be too careful in selecting soil, especially for the first potting. Under no circumstances should old soil be used. Growers who work ahead all the time will have a nice heap of soil stored away, or else covered with straw, leaves or manure, so that the frost will not get into it and make it very hard to get when it is wanted. The best soil we find for potting is a sod heap that is at least a year old. Generally we make one heap much larger than necessary for filling the houses, and then take the remainder for potting soil. Freshly mixed soil is not as good as soil from an old heap, as the manure has had no chance to work through it. Plants will start quicker in the right soil. Where the soil is known to contain many weeds or fungus it will be best

to sterilize it with steam. To do this a bin is required, which must be tight. A coil of small pipe is run back and forth through it. Drill small holes every six inches in the pipe before it is put in. The bin is then filled with soil, closed, and the steam turned on. The time required to thoroughly sterilize the soil will depend on the size of the bin and the amount of pipe in it, also on the pressure of the steam. At least half an hour should be allowed to work after it has penetrated all through the soil. Screen the soil well, running it through a one-quarter-inch mesh screen for the first potting. Coarser soil can be used later for larger pots.

Syringing

Syringe as often as the weather will permit. The days are already a little longer, and it will not be long before spring will be here. If there is any spider anywhere, be sure to mark the place well, so that the plants affected will be sure to get a good syringing. If this is not done, with spring coming, the spider will get beyond control, much damage resulting. The same may be said of greenfly. Try to fumigate before syringing and then give the plants a good one. If there are any fly here and there, that are not quite dead the water will be sure to do what the nicotine left undone. This pest, too, if neglected now will increase so fast when the warmer and longer days come that it will be hard work to keep them down. Use plenty of pressure, but not so much as to tear the leaves all to pieces, and syringe as rapidly as possible, being careful to direct the stream so that most of the spent water will hit into the walks and not on the bench. This will accomplish a double purpose; first it will leave the bench much drier, second it will throw all insects into the walk where they are likely to perish instead of leaving them on the bench to crawl back on the plants as soon as they are able. For this reason it is necessary to get well under the bottom leaves, these being always the first to harbor both fly and spider. As soon as the syringing is done the plants should be well shaken, so that the plants may have a chance to dry before night comes. Do not neglect to use air slacked lime, especially in the Beauty houses. Fill the house up well with dust, blowing it under the plants and letting it rise among them slowly, taking moisture with it as it goes.

OUR COVER ILLUSTRATION.

For the inspiring picture which serves as our cover illustration this week we are indebted to C. W. Ward of Eureka, Cal. Mr. Ward writes:—

"Can you do this in Boston? Can you do it in England? Looks like the way we grew Begonia Gloire de Lorraine at Queens, doesn't it? Eureka Giant sweet peas are coming out some day as a distinct type. No Cupids at Eureka.

"If any florist believes azaleas will not bud up at Eureka, he only has to look at this hedge of Illuminator sweet peas. Ask William Sim or any English grower if he can beat it. They had been blooming three months when this picture was taken. These plants stand eighteen inches apart. Note the bloom from base to peak. All other plants bloom, berry and set seed with a profusion that I have seen in no other place where I have ever grown plants before."

CORRECTION.

Chas. E. F. Gersdorff calls our attention to some errors in the description of his new rose in our issue of Dec. 23, viz.: The description as given says "flowers generally borne singly though always in clusters of two to four" and "foliage very durable." The word always should be also, while the word foliage should be flowers.

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heavy expense as compared with that of previous years. Yet we do not notice any material reduction in quality of the catalogues received thus far or any evidences of serious attempt to economize in any of the features through which these publications make their irresistible appeal to a winter-sick public and so effectively stir up the zest for spring time and growing things. We wish them all success.

Vicissitudes of the flower market

A peculiar condition prevails quite generally at present in some of the larger flower market cities, which, while not unprecedented, is fortunately not at all common. We refer to the overwhelming preference for the medium grades of roses and some other flowers as well, while the finer quality flowers—such as are admired in the exhibitions—are disposed of with difficulty. It may well be asked whether the ambition of so many growers for the market to produce roses of "special" and "extra" quality at this season of the year is justifiable from the standpoint of profit. The big long-stemmed roses that the grower is rightly so proud of must bring a price far beyond what the great mass of flower buyers are able or willing to pay. It certainly looks discouraging for the producer of such when, as has been the case of late, blooms of this class not infrequently lag in the hands of the wholesaler until by reason of their age, they must finally pass into the possession of the curbstone huckster at job-lot prices, whilst during the whole time an incessant clamor for the moderate-priced medium-stemmed grades is kept up, and a price paid for them when obtainable far in excess of that at which the long-kept large stock is finally moved.

Conflicting show dates

In this vast country of ours it may be safely said that in and around the immediate neighborhood of the six or seven largest cities sufficient material is always within reach to make up a colossal and resplendent flower show provided its owners can be induced to bring it out. So, unquestionably, these widely separated communities might successfully carry through public exhibitions of large proportions and outstanding merit all simultaneously on the same dates. But there are many and obvious reasons why it is regrettable that big shows should be arranged for practically identical dates in Boston, New York, Philadelphia and St. Louis as appears to be the case, this spring. From the standpoint of the exhibitors as well as of those in the trade who like to follow up the shows closely and acquire a knowledge of whatever is new, progressive and creditable in all sections where their industry flourishes, it is a keen disappointment that adequate participation in possibly all of these important events is out of the question because of conflicting dates. Even with the help afforded by difference in latitude and other climatic factors it would be, perhaps, impracticable to assign exclusive dates to each locality but it does seem reasonable that joint consideration a sufficient time in advance might have evolved a way in which the big events referred to might have been segregated, in part at least, and a better opportunity afforded those who for one or the other reason would welcome the opportunity to be present at all or several. We take the liberty to suggest that "the powers that be" in the various show centres give early consideration to this problem which is sure to become more serious yet and see whether some improvement cannot be made in the future over the embarrassing conditions that have now come to pass.

Commendable We think that the seedsmen and others who issue annual catalogues at this time of the year are displaying remarkable enterprise and courage this season, considering the many uncertainties and seemingly almost insurmountable difficulties that threaten or do already exist. Aside from the all-important problems of obtaining their stock and of price advances, there is even the cost of the catalogues alone which with the enormously enhanced price of paper, colored inks and other material entering into their production, means a very

THE DIVINE FLOWER AND THE QUEEN OF FLOWERS.

Editor HORTICULTURE:

In your columns of Jan. 20, Mr. Goddard wrote a remarkable letter. Sam concluded that some one in a western paper had libelled the carnation. He ought to have given the western paper a chance to explain. We all know the West is noted for its wind, Sam got "het up," threw down his castor, dipped his pen in blood, and with his back to a rock said like the warrior of old "Come on MacDuff," bowed gracefully to the Queen of Flowers, dragged off her crown and mantle, then sailed in to slaughter the poor innocent creature, "all for what?" Because of the western breezes! It is not the first time Carnation's champions have tried to kill or maim the poor Queen but have gloriously failed. Why Sam should assail her for so little provocation, I don't know. About the keeping qualities of roses last March I shipped by parcel post to a friend of mine in Minnesota a box of roses. After they had traveled that distance and been in his home a week he wrote saying they were in perfectly fresh condition then and they were enjoying them. The only real difference was they were grown right, packed right, and arrived in perfect shape after the long journey.

The Framingham carnations and the Natick roses I know, and it is not fair to take the Framingham carnations and put them up against a half grown rose even if it has the required length of stem to put it in the \$4 class. Good judgment, good tact and less knocking one another's staples would bring more harmony and closer associations into the daily lives of the craft, and raise the plane of better brotherhood and contented craftsmen than the present cut-throat ideas that seem to muddle our paths and prevent better understanding than at present occurs.

Natick, Mass. R. T. MCGORUM.

THE "WHY" OF THE CARNATION.

Editor HORTICULTURE:

Mr. Goddard was right in his communication in HORTICULTURE last week. Too many poor carnation blooms are put out; they cheapen the carnation in the eyes of the public. New England florist stores depend more upon the carnation than upon any other flower. The market price of carnations is entirely too low for the cost of production. Selling prices are so low as to even make them lose prestige in the buyer's mind sometimes. Other flowers are pushed in the stores because of bigger profits. Out-of-date sorts are still grown, and in many stores the salesmen are not acquainted with varieties. They simply think white, yellow or pink without regard to name.

Biddeford, Me. C. S. STROUT.

A CORRECTION.

Secretary J. G. Esler of the Florists' Hail Association calls my attention to a typographical error, which appears in the suggestions to State Vice-Presidents sent out from this office a few days ago. The paragraph reads that the Florists' Hail Association now underwrites risks on 4,000,000 square feet of glass. This should read 44,000,000 square feet of glass.

JOHN YOUNG, Sec.

Obituary

George Schneider.

On the above date at his residence at Barnes, London, End., died George Schneider, president of the French Horticultural Society of London. The deceased was for many years in the employment of Messrs. J. Veitch & Sons of Chelsea. He was a member of many Continental Horticultural Societies and a member of the jury in the great Horticultural Exhibitions. He fought in the Franco-German war of 1870-71. He was 68 years of age.

C. HARMAN PAYNE.

C. O. Fischer.

Carl Otto Fischer passed away on January 19 at Hartford, Conn., and was laid to rest in Woodlawn Cemetery, New York, on January 23. Mr. Fischer was for twenty-two years gardener for the Cheney brothers at South Manchester, Conn., and was highly esteemed by his employers and all who knew him. He retired from activity seven years ago. His age was 65 years. The funeral services were attended by many of the prominent residents of South Manchester.

Samuel Batchelor.

Word was received in Philadelphia on January 22nd of the death of Samuel Batchelor. He has of late been located near New York but is better known as a prize winning exhibitor around Philadelphia during the past dozen years. He was the grower for the Newbold estate near Jenkintown, and made some fine contributions for the advancement of horticulture. He was a nephew of William Plumb and had his early training in England. Interment at the Odd Fellows' cemetery, near Jenkintown.

Swain Nelson.

Chicago has just lost one of her citizens whose work has given pleasure to millions of people and will continue to do so as long as the city shall exist. Swain Nelson, designer of many parks, passed away at the home of his son in Glen View, Ill., Jan. 18th, at the age of 89 years. He was born and reared in Sweden, coming to Chicago just in time to be active in the development of her parks, and his plans for Lincoln Park—the people's park as it is commonly called—were adopted by the Chicago council in 1865. He assisted in carrying out these plans and also in designing Garfield, Douglas, Union and Humboldt Parks, besides Graceland Cemetery. After this work was nearly completed he moved from Chicago to Glen View where he could enjoy nature's beauty more fully and established his well known nurseries, with a city office and with city greenhouses. For several years the business has been managed by the sons, Seymour G. and Alvin E. Nelson. There are three daughters, Mrs. A. L. Gyllenhall and the Misses Emelia and Adah, who are also connected with the business. The funeral was held Jan. 21st in the Immanuel Church of New Jerusalem, Glen View, which he helped to found.

FEDERAL HORTICULTURAL BOARD ASKS FOR ENLARGED POWERS

A number of seed and nurserymen last week visited Washington and with William F. Gude, representative of the S. A. F. & O. H., held conferences with officials of the Senate Committee on Agriculture and Forestry and members of the Federal Horticultural Board, on the question of the quarantine of nursery stock. The Federal Horticultural Board, for some time past, has been endeavoring to secure the enlargement of their powers, whereby they could declare a quarantine on nursery and other stock in a broader way. The board seeks to secure for the Secretary of Agriculture the right to determine "that such quarantine is necessary to prevent the spread of" a dangerous plant disease or insect infestation and to quarantine in addition to these things now mentioned in Section 8 of the plant quarantine law "any class of stone or quarry products, or any other article of any character whatsoever, capable of carrying any dangerous plant disease or insect infestation." It would be the duty of the Secretary of Agriculture to promulgate rules and regulations permitting and governing the inspection, disinfection, and method and manner of delivery and shipment, of such commodities specified in the quarantine order, "when the public interests will permit." In each case the quoted words are those which the Board wishes to have incorporated in the present law.

MASSACHUSETTS AGRICULTURAL COLLEGE.

Last week end Professor A. H. Nehrling made a business trip to Indianapolis, Indiana.

Professor F. A. Waugh, head of the Division of Horticulture is to lecture on "Gardens" at Ames, Iowa, January 31st.

Next Thursday evening Aubrey Butler of Northampton will address the club on the subject of "Retail Store Management."

Last Thursday evening E. J. Canning of Northampton addressed the M. A. C. Florists' and Gardeners' Club on the subject "The Nursery Business and its Relation to Floriculture."

The Annual Boston Inspection Trip of the students in Floriculture will take place February 15, 16 and 17. It is planned to visit as many as possible of the larger retail establishments and greenhouse ranges of Greater Boston.

The American Society of Landscape Architects announces the election of Charles William Eliot, president emeritus of Harvard University, to honorary membership. The election comes as a show of appreciation for what President Eliot has done for the profession of landscape architecture.

CLUBS AND SOCIETIES

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The "field day" among the Framingham growers, originally scheduled for an earlier date but postponed on account of storm, took place on Saturday, January 20, with an attendance of sixty. S. J. Goddard's place was first visited and the beautiful spectacle presented by the carnation houses of this successful grower was much enjoyed. We have already described this place at some length in a recent issue. The establishment of Wm. R. Nicholson was next on the list. Here everything was found in the pink of condition, old Harry Fenn looking as in by-gone days, Matchless exceptionally good and Pink Delight producing in usual abundance. Much admiring surprise was caused by a batch of white carnations—products of the late Albert Roper—loaded with fine blooms. Belle Washburn showed up in good condition but it was the consensus of opinion that it will never displace Beacon as a producer. Benora, Peerless Pink and Mrs. Ward were other varieties of outstanding quality here. In miscellaneous stock, quantities of gypsophila started in flats for spring blooming were in evidence, also yellow marguerites are a paying specialty here.

After an enjoyable half-hour here the party journeyed to J. A. Nelson & Son's establishment, where everyone was amazed at the wonderful healthy and clean condition of plants and establishment. Beacon, Matchless, Mrs. Ward, Peerless Pink, White Enchantress and Pink Delight are in unrivalled vigor. About 60,000 carnation plants are housed and sweet peas are grown upon the roof supports and are extremely good.

From here the party took car to J. T. Butterworth's orchid establishment, where "Tom" conducted the party through and amongst his pots. Several extremely fine and rare hybrids were in bloom, which captivated the visitors by their beauty of coloring. After a very enjoyable half hour here with a light collation provided by Mr. Butterworth, President Methven on behalf of the club thanked the proprietors of the various establishments visited for their courteous treatment. Responses were made by S. J. Goddard, and J. T. Butterworth. John Stalford of Bar Harbor, Me., also made a few well chosen remarks, saying he had visited New York and Philadelphia in the last week but had not seen the equal of the carnations he had seen that day in Framingham, and declared he thought he had seen the best carnations in the world this day. The party returned in special car at 5.30 P. M.

The annual banquet of the Gardeners' and Florists' Club of Boston will be held at Horticultural Hall on Wednesday evening, February 7, 1917.

The Banquet Committee has decided to print a neat souvenir booklet, in place of the ordinary menu card, on this, the 30th anniversary of the Club's existence. The booklet will measure

Meetings Next Week

Thursday, Feb. 1.

Albany Florists' Club, Albany, N. Y.
Reading (Pa.) Florists' Association, Reading, Pa.
Southampton Horticultural Society, Old Fellows Hall, Southampton, N. Y.

Friday, Feb. 2.

North Shore Horticultural Society, Manchester, Mass.
North Shore Horticultural Society, Lake Forest, Ill.
Pasadena Horticultural Society, Pasadena, Calif.
Yonkers Horticultural Society, Yonkers, N. Y.
People's Park Cottage Gardeners' Association, Paterson, N. J.

Saturday, Feb. 3.

Pacific Coast Horticultural Society, San Francisco, Calif.

4½ x 7 inches, and a number of pages have been reserved for advertisements and much of this space has been already taken. Any profits will go towards the Club's annual picnic, for which subscriptions will not be solicited this year. For further particulars address William N. Craig, Secretary, Brookline, Mass.

SEWICKLEY HORTICULTURAL SOCIETY.

At the regular meeting of this Society on Jan. 9th Vice-Pres. R. Boxell presided and Jas. Scott of Elmsford, N. Y., installed the office-bearers for 1917 as follows: John Barnett, president; A. E. Bonsey, vice-president; John Carman, secretary; W. Thompson, Jr., treasurer; executive committee, Alex Davidson, chairman, R. Boxell, W. Thomson, Sr., C. Patton and W. Gillies.

It was resolved to hold a Show during September, date and arrangements of same to be decided later. Mr. Scott showed his generosity by donating \$10.00 to the show fund.

As lecturer for the evening Mr. Scott dealt with Horticulture as a Profession, enlarging on its possibilities, and the elevating effect it had upon those engaged in the work. Referring to the necessity of theoretical knowledge, he emphasized the importance of the study of chemistry and botany.

Several members of the Western Pennsylvania Society were present. H. Frishkorn of Beckert's Seed Store, Pittsburgh, made a few remarks, assuring the members that the trade would always be interested in the Society.

The following named members brought exhibits: John Barnett, basket of tomato, "Carter's Sunrise"; M. Curran, *Moschosma riparii* and a fine spray of *Buddleia asiatica* and well-grown *Primula malacoides*; William Thomson, Jr., *Primula obconica* and *Primula malacoides* fl. pl.; M. Reig showed fine spikes of *Moschosma riparii* and a plant of *Eranthemum pulchellum*.

JOHN CARMAN, Secy.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

National Flower Show, St. Louis, Mo., April 5th to 16th, 1918.

Under the direction of Chairman George Asmus of the National Flower Show Committee, the work of the Fifth National Flower Show is well advanced. Floor plans of the Coliseum are being prepared, showing the location of the trade exhibits, and same will be sent out at an early date. The first preliminary plant schedule has been distributed, and extra copies may be procured upon application to the Secretary at No. 53 West 28th street, New York. The Schedule Committee will be pleased to receive suggestions as to how and where this schedule may be improved, and such suggestions and recommendations will be acted upon by the Schedule Committee at their next meeting, and included in the final schedule, if approved.

The Guarantee Fund which is to be \$10,000.00 will soon be completed. Any member desiring to subscribe to this fund should do so at once. The Committee would also esteem donations of special prizes, the same to be offered under the names of the donors. Kindly, if possible, select the subject for your award from the preliminary schedules, thus relieving our obligations to the prize fund to that extent.

Special prizes have been received from the Cottage Gardens Nurseries Co., of Eureka, Humboldt Co., Cal. for the best display of American-grown *Azalea indica*. Plants must have been growing at least three years in the United States. Collection must consist of not less than six plants, five plants of each variety. First prize—cash \$50; Second prize—\$30; Third prize—\$20.

John Lewis Childs, Flowerfield, L. I., offers for *Calla Elliottiana*, 25 plants in bloom: First prize—\$20; Second \$12, 12 plants in bloom: First prize—\$10; Second—\$6.

HORTICULTURAL SOCIETY OF WESTERN PENNSYLVANIA.

This society held its regular meeting at the Carnegie Library, East Liberty, and the following named officers were elected for 1917. David Fraser, president; William Allen, vice-president; Ernest R. Bolton, secretary and treasurer. The prize offered for the best cyclamen plant was won by Neil Forsythe. Thos. Tyler was awarded a certificate of culture for his exhibit in this class, also Mr. Jones of Sewickley. There were good plants of *Primula obconica* by A. A. Leach and by Mr. Thompson of Sewickley, also a pan of *La Innocense* hyacinths from Mr. Fraser. Mr. Murphy showed some good sweet peas. The exhibits for the next meeting are to be of carnations and seasonable flowers, so if the trade has anything good in that line send them along. Our meeting is the third Tuesday in every month.

ERNEST R. BOLTON, Secy.

AMERICAN CARNATION SOCIETY.

The annual meeting and exhibition of this society takes place at the Claypool Hotel, Indianapolis, next week Wednesday and Thursday, Jan. 31-Feb. 1. As this is one of the great centers of carnation growing, and is accessible from Chicago, Cleveland, St. Louis and other populous centers, and as good delegations are expected from the East, it looks like being a record meeting. It is the twenty-sixth annual show of the society.

The Boston party will leave Boston at 2 P. M. on Monday, the 29th, while it has been arranged that the New York party leave Grand Central Terminal, 42nd St., at 4.50 P. M. the same day. As this is McKinley's Day, suggestion is made that all delegates should wear a red carnation as a badge.

The fare from New York to Indianapolis is \$21.15; lower berths, \$5; upper berths, \$4. Provision will be made for the shipment of flowers, and reservations from New York can be made up to Monday mid-day by writing Louis Haffner, Broadway and 30th St., care New York Central R. R. The transportation committee of the New York Florists' Club comprises J. Harrison Dick, chairman, A. J. Guttman and W. E. Maynard, each of whom will be glad to assist any of the delegates if further information is required.

Cleveland expects to be well represented. Small announcement cards giving details of the trip have been circulated through the wholesale houses and mailed to all the private gardeners in the Cleveland section. The special rate of \$6.50 each way has been secured. The sleeper rate is \$2.00 for lower and \$1.60 for upper berth. A special car will be attached to the regular Big Four train leaving Cleveland at midnight Jan. 30th. M. A. Vinson, who is in charge of organizing the Cleveland party, thinks that two sleepers will be needed, judging by the interest shown and the questions asked in regard to the details of the trip.

The return trip will be made through Richmond, Ind., where the big plant of the E. G. Hill Co. will be inspected. Those who desire to accompany the Cleveland party should notify M. A. Vinson, 402 Leader Bldg., or leave word with any one of the five Cleveland wholesale houses.

At the annual meeting the Cleveland delegation will extend an invitation to the American Carnation Society to hold a fall meeting together with a fall show in Cleveland, as part of the Cleveland Flower Show, Nov. 6th to 11th, 1917.

An invitation has been extended to visit the new greenhouses of the Cleveland Cut Flower Company, located at Newton Falls, Ohio, on Thursday, January 25th.

LENOX HORTICULTURAL SOCIETY

At the regular monthly meeting of the Lenox Horticultural Society held Jan. 10th it was arranged to hold the annual ball on Feb. 9th. A. J. Lovell brought a very fine specimen *Cypripedium Adela* of his own raising, and for which he was awarded a certificate of merit. Thomas Page of Great Barrington sent a collection of

very fine blooms of *Cypripediums*, including some very rare varieties, for which he was awarded a diploma.

The schedule committee for 1917 were appointed. The exhibitions for this year will be held in the town hall, Lenox, on July 10 and 11, and on October 24 and 25. The Society has procured a supply of silver and bronze medals to be awarded for exhibits of special merit. John J. Erwin's (Inspector for the State Board of Agriculture) report of our last Fall Show was read. Ed. Jenkins read a paper entitled "The Gardener and His Profession," by W. N. Craig.

HARRY HEEREMANS, Secy.

WESTCHESTER AND FAIRFIELD HORTICULTURAL SOCIETY.

The monthly meeting of this Society was held in Greenwich, Conn., Jan. 12.

Mr. Stuart ably installed the new office holders for 1917. Mr. Whitton the newly elected president then took charge of the meeting. There was one of the finest displays of flowers and pot plants ever seen at any of our meetings. Cultural certificates were given to Wm. Graham for Carnations Good Cheer and Pin Sensation; Wm. Whitton for White Killarney roses, also for six *Primula malacoides* in ten-inch pots, making quite an exhibit in themselves; James Stuart, *Calanthe Veitchii*, which showed up fine mixed with *Buddleia asiatica*; John Forbes for a very fine vase of *Laelia anceps*. Robt Grunart was highly commended for five vases of sweet peas, also for Matchless carnations and John Harper for a new seedling carnation. The thanks of the society was awarded to John Andrew for *Begonia Cincinnati*, Wm. Graham for cauliflower, Robt Grunart for carnations and P. W. Popp for freesias. It was decided to hold a smoker instead of the annual concert and dance, after the business of the February meeting is finished.

Mr. Lealey read a very interesting essay on "How to Grow Bush and Standard *Chrysanthemums*," which was enjoyed very much. The Society meets the second Friday of every month in Hubbard's Hall, Greenwich, Conn.

A. G. CLARKSON, Cor. Sec.

HOLYOKE AND NORTHAMPTON FLORISTS' AND GARDENERS' CLUB.

At the regular meeting, Jan. 9th, there was a good attendance, presided over by George Strugnell, newly elected president. Committees were appointed to look up lapsed members and revise the by-laws of the club. G. H. Sinclair spoke entertainingly of an auto trip he made through New York State last Fall, making special mention of the parks of several cities and the noted nurseries of Rochester. Carnation exhibits were made by F. D. Keyes & Son, who showed a pleasing rose pink sport of *Enchantress*, and by G. H. Sinclair & Son, who showed a promising seedling, the result of a cross between Harry Fenn and Princess Dagmar. Butler & Ullman showed Sweet Pea Yarrowa and Rainbow freesias of excellent quality. *Coleus thyrsoides* and *Erlangia tormentosa* were shown from Smith College Botanic Garden. H. E. D.

MASSACHUSETTS HORTICULTURAL SOCIETY.

At the annual meeting of the Massachusetts Horticultural Society, Saturday, January 13, President Richard M. Saltonstall reviewed the work of the past year, which has been very successful. He called attention to the special flower show that will be given on the grounds of the Wentworth Institute in June, at which there will be large displays of rhododendrons, azaleas, orchids and other flowering plants. There will be a rock garden, a rose garden, a water garden and other features. The exhibition will be under the direction of Thomas Allen, chairman of the Boston Art Commission; Prof. Charles S. Sargent of the Arnold Arboretum and Walter Hunnewell of Wellesley.

Wm. P. Rich has been reappointed secretary and librarian, and Walter Hunnewell, treasurer. Mr. Rich, in his report as librarian, stated that the new catalogue of horticulture is now being printed and a considerable portion of it is already in type. An important feature is the collection of horticultural trade catalogues, which now number 9,740. This collection is of much horticultural value, said Mr. Rich, in determining the origin and date of introduction of many of our popular garden fruits, flowers and vegetables. "The library seems to be more and more appreciated, as is evidenced by the use made of it, specialists from various sections of the country coming to consult it on interesting subjects of horticulture. There are 20,000 books on horticulture and it is claimed that this library is the largest of its kind in the world."

TENNESSEE STATE FLORISTS' ASSOCIATION.

The twelfth annual convention of the Tennessee State Florists' Association, Tennessee State Horticultural Society, Tennessee State Nurserymen's Association and Tennessee Beekeepers' Association will be held on January 30, 31, February 1, 2, 1917, at Nashville. Special round trip tickets will be available for that week. The Florists' Association will meet on Tuesday, January 30. The morning session will be devoted to routine matters, reports, etc. The program for the afternoon at 2 o'clock is as follows:

Election of Officers.
Address of Welcome, Judge Robert Ewing, Mayor of Nashville.
President's Address, Karl P. Baum, Knoxville.
"Cannas, Their Uses and Cultivation," Prof. Floyd Bralliar, Madison.
"Gladioli as Summer Cut Flowers, Their Cultivation in the South," Chas. L. Baum, Knoxville.
"Bulbs, Their Selection and Care," Dale Mayo, Jr., Knoxville.
"A Knowledge of Botany and Floriculture Necessary for the Florist," W. F. Haegar, Chattanooga.
"Cooperation of the Florist and Landscapist," W. H. Kessler, Birmingham, Ala.
"Store Management," G. E. Schulz, Louisville, Ky.
"Reminiscences," J. A. Peterson, Cincinnati, Ohio.
Night Session, 7:30 O'clock
"Office Methods Which Have Helped Me," W. C. Johnson, Memphis.
"In and Outdoor Roses for the South," Sam. Crowell, Rosencross, Miss.
"Floral Accessories," Robert Shock, Philadelphia, Pa.
"Why the Tennessee Florist Should Join the S. A. F.," Harold Joy, Nashville.
"Accomplishments of the Knoxville Floral Society," Alex. Dailey, Knoxville.

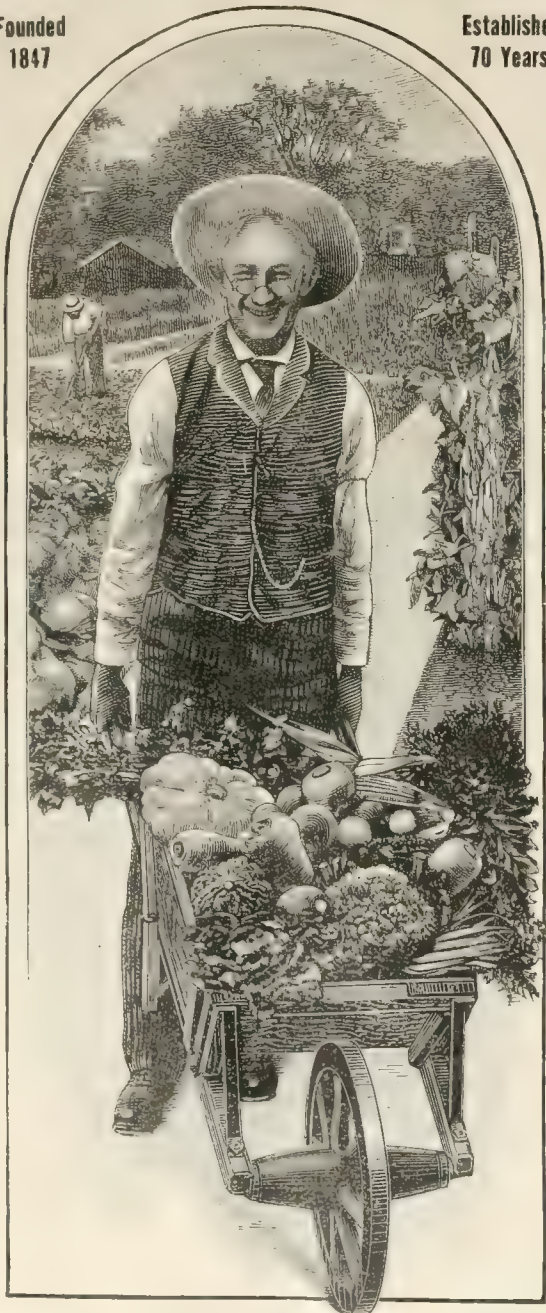
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LANCASTER COUNTY FLORISTS' ASSOCIATION.

A Trip to Strasburg, Pa.

Jan. 18th was one of the few ideal days we have had out of the last sixty or seventy and it found fifteen ideal members of this club ready for the 2 o'clock car on a trip to Strasburg. The first stop was at Amos Rohrer's, whose carnations, mostly standard varieties, were uniformly good. He is trying out Theo, and while the plants look good and healthy, it is not fully satisfactory as a commercial variety, some of them coming off color. Alice Coombs does not measure up to the standard Mr. Rohrer has set for a good carnation. It gives exhibition flowers but not enough of them.

Chas. B. Herr's was next on the list. It is a carnation plant pure and simple. Of course not every variety meets Mr. Herr's requirements, and Dagmar, Alice and Alice Coombs are not being propagated for next year's stock. Pink Delight is being bought to take the place of Alice, and Dagmar and Alice Coombs are looking for a successor as yet unfound. Beacon is beginning to split a bit but will be seen as good as the best in spite of this, for it is either at home in this soil or is better understood than with most growers. Matchless and Supreme are favorites here as they are throughout almost the entire county.

The regular meeting was called at 7.30 P. M. and the following officers elected for 1917: President, Harry A. Schroyer; vice-president, Willis B. Girvin; secretary, Frank L. Kohr; treasurer, Harry K. Rohrer.

The following committees were appointed for the year: Programme—Rudolph Nagel, Chas. B. Herr, Albert M. Herr; visiting—W. B. Girvin, Lemon Landis, Ira Landis; automobile—Chas. M. Weaver, A. K. Rohrer, C. S. Loeffler; exhibition—B. F. Barr, M. J. Brinton, J. DeBarry Heinitsch; sports—David Rose, A. F. Strickler, Charles Tucker.

The paper of the evening was by Elmer Weaver on the Newer Carnations, and he did not hesitate to say what he thought of the new carnations and their introducers from the buyer's point of view. It was not all derogatory, neither was it flattering to most of the introductions of the past few years. He mentioned one grower who had White Perfection better by fifty per cent. than any white of recent introduction and who obtains this result by the careful selection of the cuttings. He also maintained that if this were followed up with other varieties the novelty introducer would have to produce something of real merit before he could get a hearing. Mr. Weaver also scored the man who would send out a carnation that the commission dealers all condemn the second season as unworthy of growing on account of its keeping qualities. He claims this could be overcome by having the American Carnation Society test novelties out as to their possibilities along shipping lines and, if found unworthy, to withhold a certificate. In speaking of the newer sorts he mentioned one place where Aviator was far ahead of all other reds in point of production, and considered it one of the few good ones introduced last season. He also

Dreer's Double Petunias

Our Usual Celebrated Strain

15 varieties, 3 inch pots.

75c per doz.; \$6.00 per 100; the set of

15 sorts, \$1.00.

Seeds of Our Own Saving

Superb Double Fringed, 75c per 500 seeds;
\$1.50 per 1000 seeds.

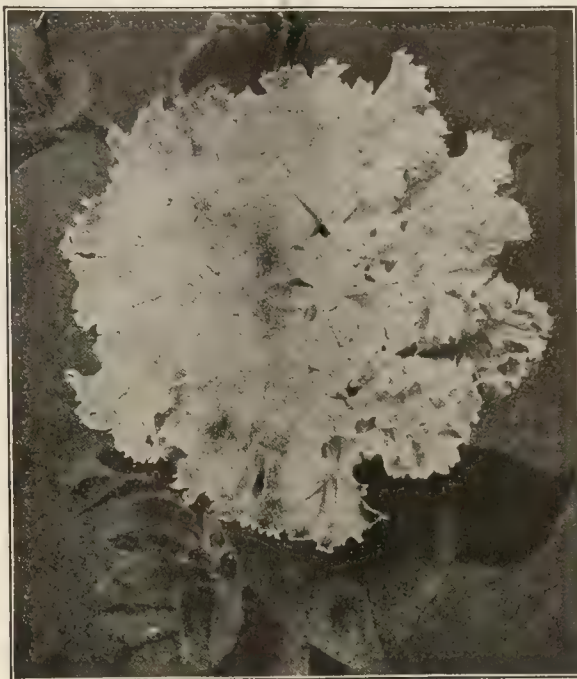
Superb Single Fringed, 50c per trade pkt.

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The above prices are intended for the trade only.



Dreer's Double Fringed Petunia.

spoke strongly about the lack of publicity given to the faults of the new carnations and wound up by acknowledging that success or failure is often up to the man who grows the variety or to the local conditions of soil and houses. The paper was really an expression in public of what almost nine out of every ten growers have to say in private about the carnation industry and its shortcomings, and the writer was given a unanimous vote of thanks for it.

In the discussion that followed, Miss Theo was pronounced a good producer but rather small and too many off-colored flowers. Alice had the same fault without the redeeming feature of being beyond the normal in production, although one grower who keeps accurate accounts reported having cut seven flowers per plant from Alice up to this time. Belle Washburn was considered a very fine one but shy in point of bloom, one grower reporting Aviator as ten times as productive, but not quite as good a flower.

Stephen A. Kost of the Wm. F. Kastling Co., Buffalo, N. Y., was a visitor and made some remarks on carnations and some things he had picked up in regard to the fertilizers they need.

T. J. Nolan was looking up the construction of the new houses he sold the B. F. Barr Co. Both gentlemen were along on the visiting trip. Walter Davis of The S. S. Pennock-Meehan Co., Phila., made some fitting remarks on the flowers they had on exhibition and was given a vote of thanks with prospects of future orders for the fine exhibition he set up, as follows:

Carnations—Suberbe from the J. D. Thompson Co., Joliet, Ill.; Rosalia from F. Dorner & Son Co., Lafayette, Ind.; Cornell by Ira D. Marvin of Williamsport, Pa.; Miss Theo and Belle Washburn by W. & H. F. Evans of Phila.; Doris by S. J. Goddard, Framingham, Mass.

Roses—Primrose by South Park Floral Co.; Rosalie and Donald MacDonald by Robt. Scott & Son, Sharon Hill; Little Gem by Edward Towill.

Carnations Crystal White, Cottage Maid and Merry Christmas were promised but failed to materialize. Merry Christmas came Friday afternoon and was shown to as many of the growers as could be reached. This variety seems to have a hard time of it around Lancaster but is being tested out along the lines of Elmer Weaver's paper, and there have been quite a few orders placed for it because it shows up so well under difficulties. Doris has also been unfortunate in its visits to Lancaster, but in spite of this has created some sensation on account of its delicious fragrance, a point lacking in so many of the recent introductions.

Preparations are under way to make the next meeting a sweet pea symposium. The date is Feb. 15th.

ALBERT M. HERR.

TARRYTOWN HORTICULTURAL SOCIETY.

The regular weekly meeting of the Tarrytown, N. Y., Horticultural Society was held on January 14. This being carnation night a fine display of

cut blooms, all the best varieties of recent introduction was exhibited. First prize, for three varieties, 6 of each, was awarded to Wm. Weeks and second to J. Strutheway. The thanks of the society was tendered to other exhibitors. A fine seedling specimen of adiantum was shown by George McIntosh which received a certificate of merit. An interesting discussion on the cultivation of carnations followed the judging and many valuable points were brought out. For February meeting the exhibits will be: Flowering plant in pots not to exceed seven inches, and 12 cut roses, 6 of each, two varieties other than American Beauties.

JOHN GRANT, Cor. Secy.

At the annual meeting of the Massachusetts Nurserymen's Association held in Boston on January 2nd the following officers were elected for the ensuing year: President, E. W. Breed, Clinton; vice-president, John Kirkegaard, Bedford; secretary-treasurer, W. H. Thurlow, West Newbury; executive committee, the above officers with G. Howard Frost, James Brandley and Sidney Littlefield.

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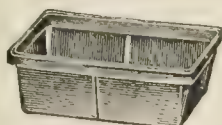
BOSTONS—\$4 per 100, \$35 per 1000.

250 at 1000 rates.

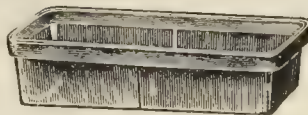
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Pansy and Verbena Baskets

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Small size No. 0
9 in long, 6 in wide, 3 in deep



Large size No. 2
13 in. long, 7 1/2 in wide, 3 1/2 in. deep

Nested 500 in a crate. Wire handles detached. Nested 250 in a crate.
Price \$9.00 per 1000 | \$2.00 per 1000 extra | Price \$17.00 per 1000

Samples Sent Free Upon Request

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During Recess

Nassau County Horticultural Society.

The eleventh annual dinner of this well-known and useful organization took place at Glen Cove, New York, on Tuesday evening, January 23, and notwithstanding the unfortunate fact that the Morris County Horticultural Society away over on the other side of New York was also jollifying on the same night, there were seventy-five guests at the tables so bountifully supplied at the "old reliable" Oriental Hotel where so many delightful symposiums have been enjoyed. The new president, James McCarthy, opened the postprandial exercises with a brief but very appropriate introduction. The first act was the presentation to the retiring president, Mr. McDonald, of a fine scarf-pin, which drew from the recipient an appreciative response.

Wm. J. Stewart, editor of HORTICULTURE, Boston, was then presented as toastmaster and the feast of oratory and song and merriment was turned loose until 10.30 P. M., when "Auld Lang Syne" was sung with fervent

handclasp and cordial good wishes for the prosperity of the Nassau County Horticultural Society for the coming year.

Speeches were brief and to the point, the stories full of wit and the songs without exception well rendered. Ex-President John F. Johnstone responded to the toast for the Nassau County Horticultural Society; Alex. Guttman, of the New York Florists' Club, for the Sister Societies, Rev. J. W. Gammack for Glen Cove Village; James H. Cocks for Our Country; W. A. Sperling, for the Seed Trade; W. E. Maynard for the Nursery Trade; Dr. Connolly for Hygienics; Edward Manda for New Jersey; Andrew Kennedy for Modesty; Wm. McCullum for the Builders; Robert Johnson for Boston; Walter Barnwell for Preparedness; Wm. Young for Contentment; Mr. Lewis for the Tree Movers; David Dean for the Young Fellow, and Treasurer Ernest Brown for the Fat Bank Book.

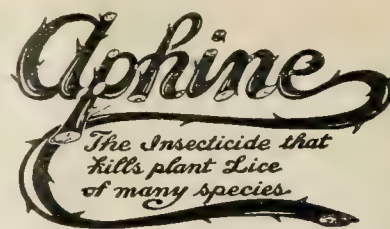
Alternating between the speeches were songs and recitations acceptably rendered by Wm. Ferguson, Thomas Twigg, Andrew Wilson, W. J. Collins, Robert Jones and Richard French. The tables were well supplied with flowers. Especially interesting was a vase of the new carnation, Olive Whitman, contributed by Alex. Guttman.

Thorburn & Co. were represented by R. F. French. R. & J. Farquhar & Co., by Robert Johnson; A. T. Boddington by David Dean; Stump & Walter Co. by W. A. Sperling; Carter's Tested Seeds by W. A. Collins; Weeber & Don by A. Lee Don; Burnett Bros, by Walter Barnwell; all of which goes to show the high esteem in which the seed trade holds the gardeners of Nassau County.

Tarrytown Horticultural Society.

The eighteenth annual dinner of the Tarrytown, N. Y., Horticultural Society was held in the Florence Inn, Jan. 16, and it proved to be the most enjoyable affair held under the auspices of this live and vigorous society.

The long dining room looked like a flower garden; never before have the decorations been so elaborate. Another feature that added to the pleasure of the evening was the starting of the dinner promptly at 7.30 o'clock. Starting the dinner earlier gave more time for speechmaking and the



The Recognized Standard Insecticide.
A spray remedy for green, black, white fly, thrips and soft scale.

Quart, \$1.00; Gallon, \$4.50.

NIKOTIANA

A 12% nicotine solution properly diluted for fumigating or vaporizing.

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Until further notice shipments on our products FUNGINE, VERMINE and SCALINE will be subject to conditions of the chemical market.

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Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pets. Excellent as a wash for dogs and other animals. Relieves mange. Dilute with water 30 to 50 parts.

1/2 Pint, 25c.; Pint, 40c.; Quart, 75c.; 1/2 Gallon, \$1.25; Gallon, \$2; 5 Gallon Can, \$9; 10 Gallon Can, \$17.50.

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IMP. SOAP SPRAY

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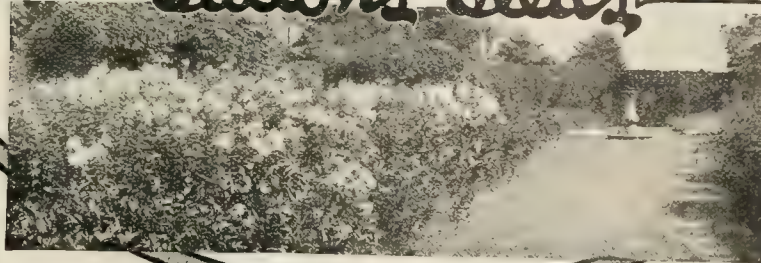
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The Florists' standard of uniform high quality for over ten years. Specify WIZARD BRAND in your Supply House order or write us direct for prices and freight rates.

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No. 31 Union Stock Yards
CHICAGO

Sutton's Seeds



Glimpse in a Garden at
Lenox, Mass.

Make It Possible For Your Customers To Duplicate The Charms of The Gardens of Lenox

VISITORS to the famous Gardens at Lenox, Glen Cove, Tuxedo Park and like places, almost invariably come away filled with wonderment at their charm, and wistfully wishing that they might duplicate those charms in their own gardens.

Just as the florists of Lenox, Glen Cove, Tuxedo Park and similar places, made possible those charms, by supplying their customers with the choice good things in

Sutton's catalog; just so can you make it possible for your customers to duplicate those charms.

You will find it profitable business. Business that will give you an entering wedge with a number of people you have found it hard to reach before.

In Sutton's Catalog you will find certain things that only Sutton has.

Send 35c. for 1917 Catalog, which price will be credited to you when your orders amount to \$5.00 or more.

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Royal Seed Establishment

READING, ENGLAND

THE SHERMAN T. BLAKE CO.

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speeches delivered have never been equalled in Tarrytown villages.

After Rev. Lucas Boeve had asked the blessing President Bradley in a witty speech turned the gavel over to James T. Lawrie, for years treasurer of the Society, and Mr. Lawrie made a most excellent presiding officer.

The dinner was well and generously served. There was a plenty of everything and everything was of the best. So promptly were the seventy members and guests served that Toastmaster Lawrie was able to start the oratorical program shortly after nine o'clock. F. R. Pierson, village president, was the first speaker and received a warm welcome. He was followed by Judge Young, E. E. Carman in songs, Rev. J. J. Henry, District Attorney Davis, Chas. H. Tibbetts, J. Austin Shaw with a poem, Supervisor J. J. Sinnott, Rev. C. A. Ashmead, Supervisor Millard in stories, Rev. Lucas Boeve and Wallace Odell. "Auld Lang Syne" closed the festivities.

Morris County Horticultural Society.

Being unable thus far to be present in two places several miles apart at the same time, all we are able to say about the dinner at Morristown, N. J., last Tuesday night is that it was the same old Morris County dinner—a big hilarious success, only more so. Were you ever there? Yes? Then imagine. But next week we'll tell you more.

An invitation has been extended the Cleveland Florists' Club to visit the new greenhouses of the Cleveland Cut Flower Company, located at Newton Falls, Ohio, on Thursday, January 25th.

AMERICAN SWEET PEA SOCIETY.

A meeting of the executive committee of this society was held at the Hotel Breslin, N. Y., on Thursday, Jan. 18, there being present Geo. W. Kerr, president, Wm. Gray, W. A. Sperling and J. Harrison Dick. A letter was read from Harry A. Bunyard, who has been secretary of the society from its inception, tendering his resignation of that office; after discussion, this was accepted with regret. Wm. Gray, Bellevue Rd., Newport, R. I., was appointed secretary to carry on the work until the annual meeting in July. As this left a vacancy on the executive committee, J. H. Stalford, Bar Harbor, Me., was nominated. The schedule and bulletin were discussed, and these will be issued as one publication by March 1 at latest. Other matters for the furtherance of the objects and membership of the society were discussed.

CLUB AND SOCIETY NOTES.

The New York and New Jersey Association of Plant Growers' tenth annual dinner will be held in the Green Room of the Hotel McAlpin, New York, on Saturday evening, Feb. 17, at seven o'clock. The tickets will be Five Dollars per person. Tables of eight, or more, will be arranged

so that those wishing to dance between courses can do so without disturbing others. William H. Siebrecht, Jr., is in charge of the dinner.

Prof. Harlan H. York of Brown University was re-elected President of the Rhode Island Horticultural Society at the 72nd annual meeting on Jan. 17. The sum of \$600 was received from the Ladies' Auxiliary of the society to be invested in a permanent fund, the interest to be used in encouraging boys and girls in horticulture. The fund will be known as the "Children's Prize Fund." Other officers of the society were chosen as follows:

First vice-president, M. M. Burdick; second vice-president, Prof. J. E. Hill; secretary, Ernest K. Thomas; treasurer, Harold L. Madison; exhibition committee, E. A. Appleton, Joshua Voss, Arthur Sellow, C. G. Hartstra and J. A. Carpenter.

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**"Seeds with a Lineage" All Varieties
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CARTERS TESTED SEEDS, Inc., 166 Chamber of
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Officers—President, Kirby B. White, Detroit Mich.; First Vice-President, F. W. Bolgiano, Washington, D. C.; Second Vice-President, L. L. Olds, Madison, Wis.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.

One Week's Imports

Imports at the port of New York, of horticultural material, for the week ending January 12th, were recorded as follows:

Plants—Netherlands, \$1,180; Brazil, \$25.
Red clover seed—France, \$22,503.
Clover Seed—France, \$1,303.
Grass seed—Ireland, \$13.
Other seeds—Denmark, \$405; France, \$7,691; Italy, \$7; Netherlands, \$2,030; England, \$5,904; Hongkong, \$83; Japan, \$16,389; Spain, \$2,270.
Nitrate of soda—Chile, \$575,357.
Other fertilizers—England, \$1,457; Argentine, \$21,257; Uruguay, \$9,097.

Notes.

Fresno, Cal. A seed store has been opened at 2034 Fresno st., by the Fresno Seed Co.

Atlanta, Ga. — The Letton-DeFoor Seed Co. will carry on the business of the McMillan Seed Co., which recently went into bankruptcy.

CATALOGUES RECEIVED.

J. J. Wilson Seed Company, Newark, N. J.—Seed Annual for 1917. Flower and vegetable seeds, implements and supplies.

Peter Henderson & Co., New York—Wholesale Catalogue for Market Gardeners and Florists, Spring Edition for 1917. A well arranged list. Covers gay with appetizing vegetables in colors.

E. G. Hill Company, Richmond, Ind.—1917 list of novelties and approved varieties of Roses, Carnations and Chrysanthemums for 1917. It speaks with authority. Elegant illustrations.

Watkins & Simpson, Ltd., London, Eng.—Foreign and Colonial Wholesale Catalogue of Vegetable and Flower Seeds, for Season 1917. A comprehensive list including 24 pages of novelties and improved strains.

Conard & Jones Co., West Grove, Pa.—Floral Guide for 1917. Excelsa roses and Gold Medal cannas are shown in resplendent colors on the cover pages of this well-known annual visitor. There are 37 pages devoted to roses exclusively, carefully described and shown in pictorial profusion.

PIN MONEY MUSHROOM SPAWN

8 lb. for \$1.00

Directions Included

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Are grown by us as far
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will mature.

They are Free from Blight—
Most Carefully Grown—Most
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JUST FOR SEED

Bolgiano's Tomato Seeds are
well known for their big yields
of large, firm, solid, meaty uni-
form Tomatoes.

We grow Tomatoes—just for
seed, even the pulp we destroy.
Not an ounce of Canning House
Tomato Seed is allowed to
enter our Establishment.



"JOHN BAER" TOMATO

WHOLESALE TOMATO SEED PRICES (To the Trade Only)

	Oz.	¼ lb.	½ lb.	Lb.
"JOHN BAER" TOMATO SEED.....	\$0.75	\$2.00	\$3.75	\$7.50
"GREATER BALTIMORE" TOMATO SEED.....	.25	.75	1.25	2.50
"GREATER BALTIMORE" TOMATO (Special Stock Seed).....	.30	1.00	1.75	3.50
MY MARYLAND TOMATO SEED.....	.25	.75	1.25	2.50
MY MARYLAND TOMATO (Special Stock Seed).....	.30	1.00	1.75	3.50
THE GREAT B B BOLGIANO'S BEST.....	.20	.50	.90	1.75
RED ROCK EXTRA FINE STOCK.....	.20	.50	.90	1.75
RED ROCK (Special Stock Seed).....	.25	.75	1.25	2.50
BURPEE'S MATCHLESS TOMATO.....	.20	.50	.90	1.75
LIVINGSTON'S PERFECTION TOMATO.....	.15	.40	.75	1.50
BRINTON'S BEST TOMATO SEED.....	.15	.40	.75	1.50
WORLD'S FAIR TOMATO SEED.....	.15	.40	.75	1.50
BOLGIANO'S NEW CENTURY TOMATO.....	.15	.40	.75	1.50
BOLGIANO'S NEW QUEEN TOMATO.....	.15	.40	.75	1.50
DWARF STONE TOMATO SEED.....	.15	.40	.75	1.50
I. X. L. BOLGIANO'S EXTRA EARLY.....	.25	.85	1.50	3.00
BONNY BEST (Purest Stock).....	.25	.75	1.15	2.25
LIVINGSTON'S NEW STONE (Pure).....	.20	.50	.90	1.75
LIVINGSTON'S NEW STONE (Special Stock Seed).....	.25	.75	1.25	2.50
LIVINGSTON'S PARAGON TOMATO.....	.20	.50	.90	1.75
MAULE'S SUCCESS TOMATO SEED.....	.20	.50	.90	1.75
KELLY RED OR WADE TOMATO SEED.....	.25	.75	1.15	2.25
LIVINGSTON'S FAVORITE TOMATO.....	.20	.50	.90	1.75
KING OF THE EARLIEST TOMATO.....	.25	.60	1.00	2.00
SPARK'S EARLIANA TOMATO.....	.20	.50	.90	1.75
CHALK'S JEWEL TOMATO (Pure).....	.25	.60	1.00	2.00
TEN TON TOMATO.....	.15	.40	.75	1.50
NEW JERSEY RED TOMATO.....	.15	.40	.75	1.50
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TOMATO SEED FOR YOUR 1917 CROP

You will get an enormous crop of Tomatoes from Bolgiano's Tomato Seeds this year. Our Seed was saved from one of the largest crops we have ever had, due to being favored by weather conditions. The vines were loaded with Large, Solid, Red Fruit. We know positively by planting Seed from this "Big Crop" your yield will be much larger than if you had bought seed grown where the weather conditions were not favorable.

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THIS IS OUR 99TH YEAR

Send for our Complete Catalogue giving lowest prices to Florists and Market Gardeners.



MICHELL'S Verbena Seed

Mammoth Fancy Strain

Cannot be excelled for its free flowering qualities, large size and purity of colors.

	Tr. pkt.	Oz.
Mammoth Fancy Blue.....	\$0.30	\$1.25
Mammoth Fancy Pink.....	.30	1.25
Mammoth Fancy Scarlet.....	.30	1.25
Mammoth Fancy Striped.....	.30	1.25
Mammoth Fancy White.....	.30	1.25
Mammoth Fancy Mixed.....	.30	1.00

Also all other Seasonable Seeds and supplies for the Florist. Send for Wholesale Catalogue.

HENRY F. MICHELL CO.
518 Market St., Philadelphia

Dwarf Gladiolus

Ramosus Ne Plus Ultra, \$6.00 per 1000.

DWARF DOUBLE PEARL TUBE-ROSES. Special prices on application.

CALADIUM ESCULENTUM BULBS.

LILIUM MULTIFLORUM. 7 to 9, 9 to 10 and 10 to 11. Attractive prices on application.

LILIUM FORMOSUM. 7 to 9, 9 to 10 and 10 to 11. (Black stem.)

Please tell us how many you can use and we shall make prices accordingly.

Selected strains of Ageratum, Alyssum, Aster, Begonia Erfordi, Calendula Meteor, Prince of Orange, Candytuft, Celosia, Centaurea, Cobaea scandens, Cosmos, Gypsophila, Lobelia, Petunia, and Verbena. Special prices on the above on application.

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KEYSTONE SNAPDRAGON

Best Winter Flowering Pink Snapdragon on the market. For pkt., \$1.00; 6 pkts. for \$5.00.

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My new Price List of
WINTER-ORCHID-FLOWERING SWEET
PEA SEED

Has been mailed. If you have not received a copy, send me postal. Part of new crop will be ready early in July.

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GENUINE BALCH'S FILLBASKET

TOMATO SEED

Greenhouse Grown from selected plants
Packet, \$1.00; 6 packets, \$5.00

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EAST PATCHOGUE, LONG ISLAND, N. Y.

READY NOW

Buddleia Farquharii

This new Winter-flowering Lilac was raised in our nurseries and is the first authentic hybrid in the genus. The flowers are pale pink, delightfully fragrant and are borne in long, cylindrical, tail-like clusters. It is of easy culture, flowers during December and January and is valuable for conservatory and house decoration and as a cut-flower.

Each, \$1.00; doz., \$10.00; per 100, \$75.00

Wholesale Prices on Application

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LEONARD'S SEEDS

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FOR SALE BY

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LILIUM GIGANTEUM

NEW CROP NOW READY.

	Per 100	Per 1000
7 to 9 in. (300 bulbs to case)...	\$5.50	\$50.00
8 to 9 in. (250 bulbs to case)...	7.00	65.00
8 to 10 in. (225 bulbs to case)...	9.00	80.00
9 to 10 in. (200 bulbs to case)...	10.00	95.00

A. HENDERSON & CO.

211 N. State St., Chicago.

Burpee's Seeds

PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
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SEEDS, BULBS AND IMPLEMENTS
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Reselected Strains in Seeds.
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8/11, 225 to a case.....\$80.00 per 1000
9/10, 200 to a case.....\$5.00 per 1000
11/13, 100 to a case.....15.00 per case

LILIUM FORMOSUM—Black Stem

8/10, 200 to a case.....\$80.00 per 1000
9/10, 180 to a case.....90.00 per 1000
11/13, 100 to a case.....16.00 per case

Write for Complete Stock Circular.
SATISFACTION GUARANTEED.

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Prices on Application. Write for 1916
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JOSEPH BRECK & SONS' CORP.
47-54 North Market St., Boston, Mass.

W. E. MARSHALL & CO.
SEEDS, PLANTS AND BULBS
Horticultural Sundries

166 W. 23rd St., NEW YORK

GARDEN SEED

BEEF, CARROT, PARSNIP, RADISH and
GARDEN PEA SEED in variety; also other
items of the short crop of this past season.
as well as a full line of Garden Seeds, will
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82 Dey St., NEW YORK and ORANGE, CONN

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NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

*Cost of Cabling Foreign Deliveries
Must be prepaid*

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.

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The Florist

"The Telegraph Florist"

Member of Florists' Telegraph Delivery

124 TREMONT ST.
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KANSAS CITY

Transfer Your Orders to

SAMUEL MURRAY

1017 Grand Avenue

Members Florists' Telegraph Delivery

Orders for NEW YORK.
Write or Phone to

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22 West 59th St.

Adjoining Plaza Hotel

Best Florists in the States as
References.

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Established 1874

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FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address. Dardsflor.

DAVID CLARKE'S SONS

Deliver orders from any part of the country to

New York City

Or OUT-GOING STEAMERS

Write or Telegraph

2139-2141 Broadway, New York
Telephone 1533-1535 Columbus

Of Interest to Retail Florists

NEW FLOWER STORES.

Edwardsville, Ill.—Ernest Lapp.

Daytona, Fla.—Royal Art Floral Co.

Youngstown, O.—Holtzman-Connors Co., 237 Wick avenue.

Baltimore, Md.—The Flower Mart, 2118 Madison avenue.

Buffalo, N. Y.—Felton Flower Shop, removing to Utica court.

Columbus, O.—Fifth Avenue Floral Co., 120 East Broad street.

VISITORS' REGISTER.

New York — Thomas Roland, Nahant, Mass.

Cincinnati—Robert Shoch, Philadelphia; S. Lipman, representing Scheuer & Co., New York.

Boston — Winfried Roelker, New York; Walter R. Siebrecht, New York; A. E. Griffin, Marion, Mass.; D. F. Roy, Marion, Mass.; W. C. Langbridge, Cambridge, N. Y.

Chicago—Ray Holt and L. T. Christman, Kirkwood Floral Co., Des Moines, Ia.; Jacob B. Wiese and family, Buffalo, N. Y.; Mr. and Mrs. M. B. Larson and daughter, Racine, Wis.

Pittsburgh — Charles Falkenheim, Basket Novelty Co., New York; Robert Shoch, Phila.; Gustave Reising, L. Baumann & Co., Chicago; S. T. Fletcher, Peters & Reed Pottery Co., Zanesville, O.

Philadelphia — Ben Delaney, representing J. Chas. McCullough Co., Cincinnati, Ohio; Frank L. Moore, Chat-ham, N. J.; Mrs. Brandt, York, Pa.; Geo. Heck, Wyomissing, Pa.; C. B. Coe of D. M. Ferry & Co., Detroit, Mich.; Antoine Leuthy, Roslindale, Mass.

Washington, D. C.—Gertrude A. Marvin, Wilkes Barre, Pa.; Xavier W. Obalski, New York; William A. Maltus, New York; F. G. Rynsbarger, Lisse, Holland; A. H. Hatke, Ratcliffe & Tanneer, Richmond, Va.; J. McHutchison, New York; Thomas Meehan, Norristown, Pa.; Curtis Nye Smith, Boston, Mass.; J. E. Morrow, Brooksville, Fla.

Send Telegraph, Telephone or Mail orders for florist service in this vicinity to

Howard & Smith

853 SO. OLIVE ST.

Los Angeles, Calif.

Every Order sure to receive prompt and careful attention.

G. E. M. STUMPP

761 Fifth Ave.

NEW YORK CITY

Member Florists' Telegraph Delivery Asso.

The Park Floral Co.

J. A. VALENTINE, Pres.

Members Florists' Telegraph Delivery.

DENVER,

COLORADO

**JOHN BREITMEYER'S
SONS**

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.



GUDE BROS CO
1214 F ST NW
WASHINGTON DC

GUDE BROS. CO.
WASHINGTON, D. C.

Member Florists Telegraph Delivery

IN THE

National Capital

At your service to deliver Flowers or Designs on Order by Telegraph or otherwise. Prompt Reliable Service.

GEORGE H. COOKE

Connecticut Ave. and L St.
WASHINGTON, D. C.

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY AND VICINITY

Members Florists' Telegraph Delivery

Rochester, N. Y.

J. B. KELLER SONS.
FLORISTS

25 Clinton Avenue, N.

Rochester Phone 306. Long Dist. Bell Phone 228.
Members Florists Telegraph Delivery

YOUNG & NUGENT

42 West 28 Street

New York

Members Florists' Telegraph Delivery

A. T. BUNYARD

NEW YORK

413 Madison Avenue at 48th Street.
Also Newport, R. I.

We Guarantee Satisfaction

MEMBER F. T. D. A.

CHICAGO Send Your Orders to WILLIAM J. SMYTH

Member Florists' Telegraph
Delivery Association

Michigan Ave. at 31st Street

Prompt Auto Delivery
Service

THOS. F. GALVIN
INC.
NEW YORK 561 Fifth Ave.
Vanderbilt Hotel
BOSTON 1 Park Street
799 Boylston Street
Deliveries to Steamers and all Eastern Ports

CLEVELAND

A. GRAHAM & SON
5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

WASHINGTON

915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to
any address in Washington.
Stock and Work First Class

Orders Filled Day or Night for
CLEVELAND
and State of Ohio
Complete Stock. Regular discount to Trade.
KNOBLE BROS.
1896 W. 25th St., Cleveland, O.
Members Florists' Telegraph Delivery Ass'n.

THE SMITH & FETTERS CO.
735 Euclid Avenue
CLEVELAND, OHIO
Flowers of Every Kind in Season

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1532.
1415 Farnum St.,
OMAHA, NEB.

S. A. ANDERSON
440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
Stock and prompt deliveries in BUFFALO,
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK
Members of Florists' Telegraph Delivery.

HIGH GRADE PLANTS
For Retail Stores a Specialty
ASK FOR LIST

THOMAS ROLAND, Nahant, Mass.
WORCESTER, MASS.
Randall's Flower Shop
HARRY L. RANDALL, Proprietor.
Mention Florists' Telegraph Association

IN THE HEART OF THE COMMONWEALTH

Centrally Located for Deliveries in All Parts of New England.

H. F. A. LANGE

125,000 Sq. Ft. of Glass
WORCESTER, MASS.

Flowers by Telegraph

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

Albany, N. Y.—F. A. Danker, 40 Maiden
Lane.

Albany, N. Y.—H. G. Eyres, 106 State
St.

Albany, N. Y.—The Rosery, 23 Steuben
St.

Albany, N. Y.—William C. Gloeckner, 97
State St.

Boston—Thos. F. Galvin, 1 Park St.

Boston—Penn the Florist, 124 Tremont
St.

Buffalo, N. Y.—S. A. Anderson, 440 Main
St.

Buffalo, N. Y.—Palmer's, 304 Main St.

Chicago—William J. Smyth, Michigan
Ave. and 31st St.

Cleveland, O.—J. M. Gasser Co., Euclid
Ave.

Cleveland, O.—Adam Graham & Sons,
5523 Euclid Ave.

Cleveland, O.—Knoble Bros., 1836 W. 25th
St.

Cleveland, O.—The Smith & Feters Co.,
735 Euclid Ave.

Denver, Col.—Park Floral Co., 1643
Broadway.

Detroit, Mich.—J. Breitmeyer's Sons,
corner Broadway and Gratiot Ave.

Houston, Tex.—Kerr, The Florist.

Kansas City, Mo.—Samuel Murray, 1017
Grand Ave.

Los Angeles, Calif.—Howard & Smith,
853 So. Olive St.

New London, Conn.—Reuter's.

New York—J. H. Small & Sons, 505 Mad-
ison Ave., at 52d St.

New York—David Clarke's Sons, 2139-
2141 Broadway.

New York—Alex. McConnell, 611 5th Ave.

New York—Young & Nugent, 42 W. 28th.

New York—A. T. Bunyard, 413 Madison
Ave., at 48th St.

New York—Darda, N. E. corner 44th St.
and Madison Ave.

New York—Max Schilling, 22 W. 59th St.

New York—G. E. M. Stumpp, 761 Fifth
Ave.

New York—Thos. F. Galvin, Fifth Ave.,
at 48th St.

Norwich, Conn.—Reuter's.

Omaha, Neb.—Hess & Swoboda, 1415
Farnum St.

Passaic, N. J.—Edward Seery.

Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave. N.

St. Louis, Mo.—Fred C. Weber, 4326-28
Olive St.

St. Paul, Minn.—Holm & Olson, Inc.

Tarrytown-on-Hudson, N. Y.—F. R. Pier-
son Co.

Toronto, Can.—J. H. Dunlop, 8-10 West
Adelaide St.

Washington, D. C.—Gude Bros., 1214 F
St.

Washington, D. C.—F. H. Kramer, 915
F St., N. W.

Washington, D. C.—George H. Cooke,
Connecticut Ave. and L St.

Westerly, R. I.—Reuter's.

Worcester, Mass.—H. F. A. Lange.

Worcester, Mass.—Randall's Flower Shop
3 Pleasant St.

REUTER'S Members Florists' Telegraph Delivery

STORES IN

New London and Norwich, Conn.
and Westerly, R. I.

We cover the territory between
New Haven and Providence

ST. LOUIS, MO.

FRED C. WEBER
4326-28 Olive St.

Member Florists' Telegraph Delivery Association
NOTICE INITIALS. We have one store only

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

The Far-Famed Flowers of

TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP
8-10 West Adelaide St. - TORONTO, ONT.

ALBANY, N. Y.

EYRES
Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

106 STATE STREET, ALBANY, N. Y.

"THE HOME OF FLOWERS"

The largest cut flower store in America.
Orders for the TWIN CITIES and for all
Northwestern points given prompt at-
tention

HOLM & OLSON, Incorporated
ST. PAUL, MINN.



KERR ORDERS FOR TEXA
HOUSTON, TEXAS

The Florist Member F. T. D. Association

NEWS ITEMS FROM EVERYWHERE

CHICAGO.

Announcement has been received here that the Queen City Floral Co., Traverse City, Mich., was sold on Jan. 11 to Ralph Anderson.

Jacob B. Wiese, wife and two daughters, of Buffalo, are in Chicago on their way to Los Angeles, Calif., where they will spend a few weeks.

August Jurgens is home from the hospital but has not ventured down to the market yet. He is one of the large growers of spring flowers for this market.

News of the death of Swain Nelson was learned with regret here where he made an enviable reputation in landscape work. His obituary appears in another column.

M. B. Larson and family are here to attend the wedding of a daughter which will take place very soon. Miss Larson has been associated with her parents in conducting the store in Racine, Wis.

Pots and pans of spring flowers are now ready in considerable quantity. These are from bulbs grown in southern France, which are always earlier than those from Holland. Azaleas, too late for Christmas, are coming in very conveniently now for there are few other blooming plants to be had.

The American Bulb Co., just closing its first season, is much pleased with the business shown by the books. All the traveling men are on the road now, working for the orders which will make next season's sales even more satisfactory. Among the new arrivals is a car of gladiolus bulbs. Their orders for the new rose sport, Pink Ophelia, are showing the growers liked the sample blooms shown here. It looks now as if the only safe way is to order early to assure getting stock, for the success of Ophelia is practically a guarantee of what its sport Rose Pink will become.

Fred Schramm of Park Ridge, Ill., is a daily visitor to Chicago, for he is now serving his third term as juror. Mr. Schramm, who devotes his 35,000 sq. ft. of glass to growing carnations, confines his stock to seven varieties—for pink, Enchantress and Mrs. Ward; for red, Victory, Beacon and Champion; for white, White Enchantress and White Perfection. Next year Matchless will take the place of White Perfection on account of splitting. Mr. Schramm, in answer to a question, said he did not think that the carnation enjoys the popularity that it did ten or fifteen years ago, and suggests the large number of spring flowers now grown and the popularity of the little baskets of artificial flowers as among the probable causes.

ST. LOUIS.

The Retail Association met on Monday, Jan. 15.

The late Mrs. M. M. Ayres left several thousand dollars to the Children's Hospital.

Willie Dee, manager of the plant

and seed department at C. Young & Sons, is again at his duties, having recovered from a severe attack of pneumonia.

WASHINGTON, D. C.

George W. Hess, superintendent of the U. S. Botanical Garden, has been named as a member of the Committee on Illumination for the Inaugural.

A collection of tropical and subtropical plants and fruits is to be made for the Department of Agriculture by W. E. Safford, who has just left this city for a ten weeks' stay in Florida for that purpose. A series of investigations with Dutch bulbs is to be carried on by Dr. David Griffiths, who has just left for a trip through Virginia, North and South Carolina, Georgia and Florida.



Floral Offering for Admiral Dewey's Funeral.

The funeral of the late Admiral Dewey brought a considerable amount of business to the florists of this city. J. H. Small & Sons alone had 42 pieces, and in all there were seven truck loads of flowers sent to the tomb in Arlington Cemetery. One piece furnished by J. H. Small & Sons, which eclipsed anything else furnished for this occasion, was a fourteen-foot standing wreath of American Beauty roses, lilies, cattleyas and lily of the valley. Gude Bros. Company came in for a considerable share of this business, for they furnished nearly a score of wreaths and clusters, each more or less imposing in their makeup. Fred H. Kramer, George H. Cooke, Z. D. Blackstone, the Washington Floral Company, the DuPont Floral Co., Marche & Co., and others, each furnished a number of designs.

BOSTON.

The New England party bound for the carnation meeting at Indianapolis will be of fair size as it now appears. They will leave Boston on Monday, January 29, at 2 P. M.

Penn the Florist has leased a store on Hamilton Place, two doors from the Tremont street store, for ten years, which will be used as a display room for garden furniture and accessories.

William N. Craig, superintendent of Faulkner Farm in Brookline, spoke before the Massachusetts Horticultural Society in Horticultural Hall, last Saturday on "Seeds, How to Prepare Them and How to Plant Them."

A brisk blaze raged for about 30 minutes in E. D. Kaulback's Malden store last week, causing much excitement and a small loss. The origin of the fire could not be ascertained. Mr. Kaulback did not find it necessary to shut down, and repairs are now being made.

PHILADELPHIA.

A meeting of the local committees of the American Rose Society was held at the Bellevue-Stratford on January 18th, President Pennock in the chair. There was a good attendance of the members and all reported satisfactory progress in their various departments. The big Rose Festival that takes place in March is in excellent shape so far, and everybody seems full of enthusiasm—which is as it should be—the absolutely necessary ingredient to make the show a big success.

Another live wire has been added to the outfit of the Philadelphia Wholesale Florists' Exchange in the person of George Cook, for many years one of the leading salesmen for the Pennock-Meehan Co. The Exchange is headed by W. A. Leonard, one of Philadelphia's leading rose growers, and his right bower is J. Deutscher, one of the brightest hustlers on the selling end. Since the new organization was formed one year ago, business has rapidly increased and bids fair to be a big success.

REED & KELLER
122 West 25th St., New York
Florists' Supplies
We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

Telephone 3560 Madison Square

WOODROW & MARKETOS
WHOLESALE
Plantsmen and Florists
37 and 39 West 28th St., NEW YORK

Do Your Spring Buying Early AND DON'T FORGET

That when you stock up on Bayersdorfer & Co.'s goods you are getting
THE BEST IN THE WORLD

BASKETS For Plants. BASKETS For Flowers BASKETS

In Endless Variety, Home Manufacture and
Imported. Everything in Florists' Requisites.

Stock up now and have the goods to show customers. Send for prices and
see how much you can do with a little money when you go straight to
headquarters—**THE FLORISTS' SUPPLY HOUSE OF AMERICA.**

H. BAYERSDORFER & CO.

Manufacturers and
Importers

1129 Arch Street, PHILADELPHIA, PA.

Write for
Catalogue

PITTSBURGH.

Julius W. Ludwig is convalescing from a severe attack of influenza.

Otto Oberg, a former Wisconsin man has been added to the Randolph & McClements store force.

"Smith's Floral Magazine" is the most recent innovation of the A. W. Smith Co., and is published monthly.

David Hill, who has an attractive little shop on downtown Fifth avenue, has just opened a similar enterprise at 6117 Penn avenue, East Liberty.

The Zieger Company has re-opened its branch store on North Highland Ave., East End, Miss Martha Myers and Charles F. Manke comprising the sales force.

Edward E. Ludwig, during his seven weeks sojourn at Ithaca, will take up some post-graduate work in the Agricultural Department in which he was a member of last year's graduating class.

After a five months' absence from the city Norbert Huttinger, formerly a designer for Mrs. E. A. Williams, has returned and located in the East End with G. P. Weaklin & Co. While away Mr. Huttinger was in Martinsburg, W. Va., in a new shop opened by Mrs. P. J. Phillips, and in Cleveland, Ohio, as an employee of Jones & Russell.

NEW YORK.

At M. C. Ford's we were shown some flowers of a very pretty sport of the little Old Gold rose, which originated with Myers & Samtman. The color is uniform deep orange, and buds and foliage have a waxy finish which is simply charming. There should be a ready welcome for it among the retail trade.

The new "house committee" of the N. Y. Florists' Club with Phil Kessler again serving as chairman, will inaugurate itself at the February 12 meeting in a manner which will put all past performances in the shade. H. Brown of Richmond, Va., has provided two Virginia hams—but that is only one item.

VALENTINE'S DAY PUBLICITY.

The accompanying illustration shows the design of the posters and stamps for florists' Valentine Day publicity which are being supplied by the Chicago Florists' Club as described in our issue of January 13. Very large orders have been placed by leading florists in some cities for posters for street



car advertising and the demand for envelope stickers has been very heavy from all parts of the country. The stamps are $2\frac{1}{8} \times 2$ in., and the posters are $7\frac{1}{4} \times 7\frac{3}{4}$ in. Samples and prices may be had on application to the com-

mittee, Fred Lautenschlager, chairman, 440 West Erie St., Chicago, Ill.

Communities having a number of florists can club together as individuals or as an organization, and combine their purchases, which would reduce the cost to each, and at the same time result in an organized and systematic plan of advertising. Wholesale florists and supply houses may order in large quantities for resale or distribution—get busy immediately—order at once.

Send remittance with order as this will save considerable office work for the committee, and make all remittances payable to O. H. Amling, Treasurer, Chicago Florists' Club. Stamps and posters are now ready for delivery.

NEW CORPORATION.

East Orange, N. J.—George Smith & Sons, 557 Main street, florists and landscape gardening; capital stock, \$10,000.

NEWS NOTES.

Reading, Mass.—E. L. Matson has purchased the greenhouses of John A. Cox.

Albany, N. Y.—Nineteen hundred and seventeen marks the seventy-fifth anniversary of the establishment of L. Menand, florist. The announcement is sent out to their customers and friends in a neat letter adorned with a spray of forget-me-not.

CYCAS--BASKETS--WAX GOODS

We manufacture these goods right on the premises
We can save you thirty-three cents on every dollar

BOSTON FLORAL SUPPLY CO.

347-357 Cambridge St., Boston, Mass.

GARDENIAS

The Best \$25.00 per 100
Fancy \$20.00 per 100
Firsts \$15.00 per 100

At our prices every Retail Florist can handle them. If you buy 25 at one time we bill them at the 100 rate.

THE LEO NIESSEN CO.

Wholesale Florists

1201-05 Race Street,

PHILADELPHIA, PA.

EDWARD REID WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.
CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

W. A. LEONARD J. M. DEUTSCHER
Bell, Locust 1497 Keystone, Race 1656

Philadelphia Wholesale Florist Exchange

1615 Ranstead St., PHILADELPHIA, Pa.

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$1.55. 50,000...\$8.00. Sample free.
For sale by dealers.

E. G. HILL CO.

Wholesale Florists

RICHMOND, IND.

Please mention Horticulture when writing.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

264 RANDOLPH ST., DETROIT, MICH.

The House for Quality and Service

ZECH & MANN

We are Wholesale Florists Doing
a Strictly Wholesale Business

30 East Randolph Street, CHICAGO



DAVID WELCH

EDWARD J. WELCH

WELCH'S

Wholesale & Commission Florists

FLORISTS' SUPPLIES

280-282 Devonshire Street,

BOSTON, MASS.

Tel. Fort Hill 1964-1965

POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut Flower Market

Daily consignments from
leading growers

Full line of Florists'
Supplies

Write for quotations before
ordering elsewhere

262B DEVONSHIRE ST., BOSTON, MASS.
Telephone, Main 6267-6268

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON Jan. 25		ST. LOUIS Jan. 22		PHILA. Jan. 22	
Roses						
Am. Beauty, Special	40.00	to 60.00	40.00	to 50.00	50.00	to 60.00
" " Fancy and Extra	15.00	to 30.00	30.00	to 40.00	20.00	to 35.00
" " No. 1 and culls	6.00	to 10.00	10.00	to 20.00	6.00	to 15.00
Russell, Euler, Mock	6.00	to 20.00	5.00	to 25.00	6.00	to 25.00
Hadley	6.00	to 15.00	5.00	to 12.00	6.00	to 20.00
Arenberg, Hoosier Beauty	4.00	to 10.00	.....	to	6.00	to 15.00
Ward	8.00	to 15.00	6.00	to 10.00	6.00	to 10.00
Killarney, Radiance, Taft	4.00	to 15.00	4.00	to 10.00	6.00	to 12.00
Ophelia, Sunburst, Hillingdon	8.00	to 15.00	5.00	to 12.00	6.00	to 15.00
Kay	6.00	to 15.00	.....	to	6.00	to 20.00
Carnations						
Cattleyas	3.00	to 8.00	.....	to 4.00	3.00	to 5.00
Dendrobium formosum	35.00	to 50.00	50.00	to 60.00	35.00	to 50.00
Lilies, Longiflorum	.....	to 50.00	.....	to	35.00	to 50.00
Lilies, Speciosum	8.00	to 12.00	.....	to 12.50	12.00	to 15.00
Callas	8.00	to 10.00	.....	to .....	.....	to
Lily of the Valley	12.00	to 18.00	10.00	to 15.00	12.00	to 15.00
Snape dragon	4.00	to 6.00	.....	to 6.00	3.00	to 5.00
Daffodils	2.00	to 6.00	6.00	to 8.00	4.00	to 6.00
Narcissi, Paper White	3.00	to 4.00	.....	to 5.00	3.00	to 4.00
Roman Hyacinths	2.00	to 3.00	.....	to 3.00	2.00	to 3.00
Freesia	3.00	to 4.00	.....	to 2.00	3.00	to 4.00
Tulips	3.00	to 4.00	.....	to .....	.....	to 5.00
Calendulas	4.00	to 5.00	.....	to	3.00	to 5.00
Sweet Peas	2.00	to 4.00	.....	to	3.00	to 4.00
Violets	1.00	to 2.00	.50	to 1.50	1.00	to 2.00
Marguerites	.40	to .60	.40	to .50	.25	to .75
Gardenias	1.00	to 2.00	.....	to .....	.75	to 2.00
Adiantum	20.00	to 30.00	.....	to	5.00	to 25.00
Smilax	.....	to 1.00	.....	to 1.00	1.00	to 1.50
Asparagus Plumosus, & Spreng.	12.00	to 20.00	12.50	to 15.00	15.00	to 20.00
	25.00	to 35.00	25.00	to 35.00	35.00	to 50.00

WILLIAM F. KASTING Co.

Wholesale Florists

568-570 WASHINGTON STREET - BUFFALO, N. Y.

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER of

CUT FLOWERS

In writing to Advertisers kindly mention Horticulture



WHITE LILAC

Wonderfully well-grown stock it is, large, well-matured sprays, in quantity.

\$1.50 Per Bunch

GARDENIAS

Special - - \$3.00 per dozen
Fancy - - - 2.00 per dozen
Extra - - - 1.00 per dozen

A few extra long specials, \$4.00 per dozen

S. S. PENNOCK-MEEHAN CO.

THE Wholesale Florists of PHILADELPHIA

NEW YORK PHILADELPHIA BALTIMORE WASHINGTON
117 W. 28th St. 1608-1620 Ludlow St. Franklin & St. Paul Sts. 1216 H St., N. W.

Flower Market Reports

Nothing distinctly new or BOSTON important can be said about this week's market conditions. The dearth of stock continues to make itself felt, especially in the price list. Business is spirited and steady nevertheless. American Beauty, Russell, Ophelia and Killarney roses bring holiday prices and are sold in fairly large quantities at that. Benora carnations have enjoyed a record call this week, possibly on account of their excellent quality. White carnations are a trifle flaccid. Callas have been at a premium as in the preceding week and lilies only partially filled the gap. Bulb stock is rather poor in quality but seems well in demand as very few are not disposed of. Lily of the valley is of excellent grade but abnormally scarce and high. All greens have enjoyed the usual brisk demand.

"Almost like Christmas"

CHICAGO is the way one wholesaler sums up the rose situation in Chicago. All kinds of roses are scarce and there are no signs of an immediate change in conditions, but the cloud has this silver lining: that there will be all the more for Easter. Spring flowers are everywhere and everyone seems delighted with them. Their good keeping qualities and bright coloring make them ready sellers. Sweet peas, from the small, short-stemmed sorts to the splendid butterfly varieties, are coming now and for the most part are moving fairly well. Carnations are still uncertain. One day the good ones all clean up nicely only to have many left-overs the next, and it is only a very small proportion of the day's receipts that will bring 4c., while a very large proportion go below 3c. There are plenty of theories regarding the cause but on none do the grower, the wholesaler and the retailer all agree. A comparison of prices of carnations with those of last year show that the after-holiday drop came in February. This year it came early in January. Home-grown single violets are bringing one dollar and eastern stock does not affect the

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI Jan. 22	CHICAGO Jan. 22	BUFFALO Jan. 22	PITTSBURG Jan. 22
Roses				
Am. Beauty, Special.....	50.00 to 60.00	50.00 to 75.00	..... to 50.00	..... to 50.00
" " Fancy and Extra.....	30.00 to 40.00	35.00 to 45.00	25.00 to 35.00	30.00 to 40.00
" " No. 1 and culls.....	8.00 to 25.00	5.00 to 15.00	4.00 to 6.00	6.00 to 20.00
Russell, Euler, Mock.....	..... to	8.00 to 25.00	8.00 to 15.00	10.00 to 20.00
Hadley.....	..... to .....	..... to	5.00 to 15.00	..... to
Arenberg, Hoosier Beauty.....	6.00 to 15.00	..... to	6.00 to 15.00	..... to
Ward.....	5.00 to 10.00	5.00 to 12.00	4.00 to 6.00	8.00 to 12.00
Killarney, Radiance, Taft.....	5.00 to 12.00	3.00 to 12.00	4.00 to 12.00	4.00 to 15.00
Ophelia, Sunburst, Hillingdon.....	6.00 to 18.00	6.00 to 15.00	4.00 to 12.00	10.00 to 20.00
Kay.....	..... to .....	..... to	10.00 to 15.00	..... to
Carnations	3.00 to 4.00	2.00 to 4.00	3.00 to 5.00	3.00 to 4.00
Cattleyas	60.00 to 75.00	60.00 to 75.00	40.00 to 50.00	40.00 to 50.00
Dendrobium formosum.....	..... to .....	..... to .....	..... to .....	..... to
Lilies, Longiflorum	12.50 to 15.00	8.00 to 12.50	10.00 to 12.00	..... to 15.00
Lilies, Speciosum	6.00 to 10.00	..... to	4.00 to 6.00	..... to
Callas	10.00 to 12.50	..... to	8.00 to 12.00	..... to
Lily of the Valley.....	..... to 7.00	5.00 to 6.00	6.00 to 7.00	..... to 6.00
Snapdragon	4.00 to 6.00	6.00 to 10.00	5.00 to 10.00	4.00 to 10.00
Daffodils	4.00 to 5.00	3.00 to 4.00	4.00 to 5.00	4.00 to 6.00
Narcissi, Paper White.....	..... to 3.00	2.00 to 3.00	2.00 to 3.00	3.00 to 4.00
Roman Hyacinths.....	..... to 3.00	3.00 to 4.00	2.00 to 3.00	..... to
Freesia	3.00 to 4.00	5.00 to 6.00	3.00 to 5.00	3.00 to 4.00
Tulips	4.00 to 5.00	3.00 to 4.00	3.00 to 5.00	3.00 to 5.00
Calendulas	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 6.00
Sweet Peas	75 to 1.50	.50 to 1.00	.40 to .75	.75 to 1.25
Violets.....	.75 to 1.00	.75 to 1.00	1.00 to 2.00	2.00 to 3.00
Marguerites.....	.75 to 1.00	..... to	25.00 to 30.00	15.00 to 25.00
Gardenias.....	..... to 1.00	..... to 1.00	1.00 to 1.25	1.00 to 1.25
Adiantum.....	..... to 15.00	15.00 to 20.00	15.00 to 18.00	..... to 15.00
Smilax.....	..... to 50.00	25.00 to 50.00	25.00 to 50.00	30.00 to 50.00
Asparagus Plu. & Spren. (100 Bhs.)	25.00 to 50.00	25.00 to 50.00	25.00 to 50.00	30.00 to 50.00

market much. A few doubles are now grown locally but as compared with eastern stock they are very small. Smilax is now fine and much of it is in blossom. The local asparagus sprengeri sprays are quite light in color and soft, while that from the south is much better. On the whole, green is scarce. Shipping trade is very good.

Stock is rather CINCINNATI scarce in this market. Daily receipts have decreased and this combined with an active steady demand is keeping the market cleaned up from day to day and has caused high prices. Rose receipts are short of the actual demand for them. Carnations are proving exceptionally good property. Lilies, daffodils and other bulbous stock, are selling well at good prices. Sweet pea receipts are excellent and have a good market. Lily of the valley, orchids and single violets meet with a fair but ordinary demand. Other offerings include forget-me-not, wall-flower, primrose, callas and snapdragon.

NEW YORK This market seems pretty well supplied

with flowers. The variety of promiscuous material seen in the wholesale marts is greater than ever before in our opinion. But, notwithstanding all this, one of the most essential items in the flower trade of this or any other market, the medium price rose—say, 12 in. stem—is as scarce almost as the proverbial "hen's teeth." Prices of these, when available, are firm as a rock. Carnations hold up strong also. Lily of the valley lags at the rates now demanded and plenty of this old-time favorite stands unsold in the wholesalers' ice-boxes, but quality is inferior as a rule. Violets are seen in varying quality but the street pedlars have no difficulty in getting high quality flowers in abundance. All bulbous material is increasing rapidly in variety, quantity and quality of bloom. This is especially true of tulips. Lilies and callas are making a big record for the season.

PHILADELPHIA The scramble last week was for short roses—six,

(Continued on page 121)

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NEW YORK QUOTATIONS PER 100. To Dealers Only

	Last Half of Week ending Jan. 20 1917		First Half of Week beginning Jan. 22 1917	
ROSES AND CARNATIONS				
American Beauty, Special	35.00	to 50.00	50.00	to 60.00
" " Fancy and Extra	15.00	to 25.00	30.00	to 40.00
" " No. 1 and culls.	6.00	to 10.00	6.00	to 15.00
Russell, Euler, Mock	6.00	to 20.00	6.00	to 20.00
Hadley	10.00	to 40.00	6.00	to 50.00
Arenberg, Hoosier Beauty	4.00	to 12.00	6.00	to 15.00
Ward	5.00	to 12.00	6.00	to 12.00
Killarney, Radiance, Taft	5.00	to 10.00	6.00	to 12.00
Ophelia, Sunburst, Hillingdon	6.00	to 12.00	6.00	to 15.00
Kay	5.00	to 12.00	6.00	to 12.00
Carnations	3.00	to 6.00	3.00	to 5.00

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 MAURICE L. GLASS, Treasurer

Flower Market Reports

(Continued from page 119)

eight and ten cents—and there were not quarter enough of these to go around. The buyers did not seem to want to pay the price for the higher grades. This condition naturally lifted a good part of the trade to carnations. These are very fine at present and are bringing good prices although not exorbitant. Orchids are more plentiful and prices have eased up a little. Gardenias the same. Both are excellent. Roman hyacinths, Golden Spurs and paper white narcissi are prominent features, and white lilac is also in abundance. Sweet peas are very fine and in good supply—much of the stock being really of exhibition quality. Bouvardia and stevia seem to be nearing their finish, as we see very little of these around now. Lilies go fairly well but lily of the valley is still a little sluggish.

That prices will soon drop is almost a foregone conclusion, owing to the oversupply of cut blooms which promise to glut the market. With the single exception of roses which still continue "shy," flowers are coming in more plentifully every day. Even orchids are rather plentiful, and there are many sweet peas of superb quality. Tulips are coming in in variety and paper white narcissi and daffodils, lilies and mignonette are all making up for the scarcity of the past several weeks.

Stock is very scarce ST. LOUIS and the wholesalers find no difficulty in cleaning up. Carnations have taken a brace and are selling at 4c. Roses are cleaning up every day. Killarneys which have been selling at low figures are now bringing top prices. Violets are selling well at moderate prices. Sweet peas also move at good figures. Greens are selling well and fancy ferns have advanced in price.

Good prices prevailed in the local market last week because of a general shortage of all cut flowers. Roses ranged from \$8 to \$20 per hundred, the latter price having increased to \$30 for extra specials. Sweet peas, violets, and gardenias, among the smaller flowers, were in considerable demand and at times there were not enough of these to meet all calls. Carnations sell almost as soon as offered, particularly in the lighter colors. Harrisii lilies are selling well. Blooming plants were a feature of the market. The retailers are not buying very heavily of lily of the valley because of the continued high prices. At \$6 per hundred there are few buyers, both people and florists alike, demanding a bigger show for their money.

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MISCELLANEOUS

	Last Half of Week ending Jan. 20 1917		First Half of Week beginning Jan. 22 1917	
Cattleyas	20.00	to 50.00	20.00	to 50.00
Dendrobium formosum	.....	to 50.00	.....	to 50.00
Lilies, Longiflorum	10.00	to 12.00	10.00	to 12.00
Lilies, Speciosum	4.00	to 8.00	4.00	to 10.00
Callas	12.00	to 18.00	12.00	to 18.00
Lily of the Valley	3.00	to 5.00	3.00	to 5.00
Snapdragon	3.00	to 5.00	3.00	to 5.00
Daffodils	4.00	to 6.00	4.00	to 6.00
Narcissi, Paper White	2.00	to 3.00	2.00	to 3.00
Roman Hyacinths	2.00	to 4.00	2.00	to 4.00
Freesia	2.00	to 4.00	2.00	to 4.00
Tulips	2.00	to 6.00	2.00	to 6.00
Calendulas	3.00	to 6.00	3.00	to 6.00
Sweet Peas	1.00	to 3.00	1.00	to 3.00
Violets	.40	to .60	.35	to .60
Marguerites	1.00	to 2.00	1.00	to 2.00
Gardenias	8.00	to 25.00	8.00	to 25.00
Adiantum	.75	to 1.00	.75	to 1.00
Smilax	15.00	to 20.00	15.00	to 20.00
Asparagus Plumosus, & Spreng (100 bunches)	20.00	to 35.00	20.00	to 35.00

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GLASS—6 x 8, 8 x 10, 10 x 12, 10 x 14, \$2.00 per box. Other sizes at factory prices. C. N. ROBINSON & BRO., Dept. 29, Baltimore, Md.

GLASS CLOTH

Turner Bros., Bladen, Neb.
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GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Parshelsky Bros., Inc., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

A. T. Stearns Lumber Co., Neponset, Boston.
Pecky Cypress.

GREENHOUSE CONSTRUCTION

King Construction Co., N. Tonawanda, N. Y.
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Foley Greenhouse Mfg. Co., Chicago, Ill.
For page see List of Advertisers.

Lord & Burnham Co., New York City.

GREENHOUSE CONSTRUCTION—Cont.

A. T. Stearns Lumber Co., Boston, Mass.

Metropolitan Material Co., Brooklyn, N. Y.
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S. Jacobs & Sons, Brooklyn, N. Y.
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Hitchings & Co., New York City.
For page see List of Advertisers.

GUTTERS

King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.
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HAIL INSURANCE

Florists' Hall Asso. of America.
J. G. Esler, Saddle River, N. J.
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HARDY FERNS AND GREEN GOODS

Michigan Cut Flower Exchange, Detroit, Mich.
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The Kervan Co., New York.
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HARDY PERENNIALS

Bay State Nurseries, No. Abington, Mass.
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P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

HEATING APPARATUS

Kroeschell Bros. Co., Chicago.
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Lord & Burnham Co., New York City.

HOSE

Metropolitan Material Co., Brooklyn, N. Y.
Non-Kink Woven Hose.
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H. A. Dreer, Philadelphia, Pa.
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HOSE VALVE

Metropolitan Material Co., Brooklyn, N. Y.
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HOT BED SASH.

Parshelsky Bros., Inc., Brooklyn, N. Y.
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S. Jacobs & Sons, Brooklyn, N. Y.
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Foley Greenhouse Construction Co., Chicago, Ill.
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Lord & Burnham Co., New York City.

A. T. Stearns Lumber Co., Neponset, Mass.

INSECTICIDES

Aphine Manufacturing Co., Madison, N. J.
Aphine.
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Nicotine Mfg. Co., St. Louis, Mo.
Aphis Punk and Nikoteen.
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Eastern Chemical Co., Boston, Mass.
Imp. Soap Spray.
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Lemon Oil Co., Baltimore, Md.
Lemon Oil Insecticide.
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B. G. Pratt Co., New York City.
Spraying Results Guaranteed.

IVIES

A. M. Davenport, Watertown, Mass.
English Ivies.
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LILY BULBS.

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
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McHutchison & Co., New York.
Lily Bulbs from Japan.
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R. M. Ward & Co., New York, N. Y.
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J. M. Thorburn & Co., New York City.
Lilium Harrisii Bulbs.
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Joseph Breck & Sons Corp., Boston, Mass.
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A. Henderson & Co., Chicago, Ill.
Lilium Giganteum.
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Roman J. Irwin, New York City.
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LILY OF THE VALLEY PIPS

Chas. Schwake & Co., Inc., New York City.
Hohmann's Famous Lily of the Valley Pips.
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J. M. Thorburn & Co., New York City.
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LIQUID PUTTY MACHINE

Metropolitan Material Co., Brooklyn, N. Y.
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MASTICA

F. O. Pierce Co., New York City.
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MUSHROOM SPAWN

Wm. Elliott & Sons, New York City.
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NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc.
Hatboro, Pa.
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NIKOTEEN

Nicotine Mfg. Co., St. Louis, Mo.
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NIKOTIANA

Aphine Mfg. Co., Madison, N. J.
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NURSERY STOCK

R. & J. Farquhar & Co., Boston, Mass.
New Chinese Plants and Shrubs.
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P. Ouwerkerk, Weehawken Heights, N. J.
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W. & T. Smith Co., Geneva, N. Y.
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The D. Hill Nursery Co., Dundee, Ill.
Hill's Evergreens.
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Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
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Bobbink & Atkins, Rutherford, N. J.
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August Rolker & Sons, New York City.
Holland Nursery Stock.
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NUT GROWING

The Nut-Grower, Waycross, Ga.
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In writing to Advertisers kindly mention Horticulture

ORCHID PLANTS

Beechwood Heights Nurseries,
Bound Brook, N. J.
Importers and Growers of Orchids.
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Julius Roehrs Co., Rutherford, N. J.
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Lager & Hurrell, Summit, N. J.
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PETUNIAS

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
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Henry A. Dreer, Philadelphia, Pa.
Dreer's Double Petunias.
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PEONIES

Peonies. The world's greatest collection.
1200 sorts. Send for list. C. BETSCHER,
Canal Dover, O.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.

PIPE AND FITTINGS.

Kroeschell Bros. Co., Chicago.
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King Construction Company,
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
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PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

PLANT AND BULB IMPORTS

Chas. Schwake & Co., New York City.
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August Rolker & Sons, New York City.
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McHutchison & Co., New York City.
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RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
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RIBBONS AND CHIFFONS

S. S. Pennock-Meehan Co., Philadelphia, Pa.
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ROSES

P. Ouwerkerk, Hoboken, N. J.
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W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
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A. N. Pierson, Inc., Cromwell, Conn.
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Bay State Nurseries, North Abington, Mass.
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August Rolker & Sons, New York City.
Hardy Roses.
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Robert Scott & Sons, Sharon Hill, Pa.
Agent for Alex. Dickson & Sons.
New Red Rose, Donald Macdonald.

Guttman & Raynor, Inc., New York City.
Rose Prima Donna (Mme. Paul Euler).

ROSES, CANNAS AND SHRUBS.
THE CONARD & JONES COMPANY,
WEST GROVE, PA.

SASH

STANDARD HOTBED SASH, with cross
bar, 85c. each; lots of 25 and over, 80c.
each. Satisfaction guaranteed or money
refunded. Glass 6x8, 8x10, 10x12 or
10x14, \$2.00 per box of 50 sq. ft.
C. N. ROBINSON & BRO., Dept. 29, Balti-
more, Md.

SCARLET SAGE SEED

D. Landreth Seed Co., Bristol, Pa.

SEASONABLE PLANT STOCK

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
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SEEDS

Carter's Tested Seeds.
Seeds with a Pedigree.
Boston, Mass., and London, England.
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Sutton & Sons, Reading, England.
Represented by
Winter, Son & Co., New York City.
Sutton's Seed Catalogue.
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Joseph Breck & Sons, Boston, Mass.
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J. Bolgiano & Son, Baltimore, Md.
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A. T. Boddington Co., Inc., New York City.
Choice Florists' Seeds for Early Sowing.
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Chas. Schwake & Co., New York City.
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Michell's Seed House, Philadelphia, Pa.
Verbena Seed.
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W. Atlee Burpee & Co., Philadelphia, Pa.
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R. & J. Farquhar & Co., Boston, Mass.
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J. M. Thorburn & Co., New York City.
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Amt. C. Zvolanek, Lompoc, Cal.
Winter Flowering Sweet Pea Seed.
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S. S. Skidelsky & Co., Philadelphia, Pa.
Snapdragon.
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Kelway & Son, Langport, England.
Seeds, Selected Strains.
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W. E. Marshall & Co., New York City.
Seeds, Plants and Bulbs.
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August Rolker & Sons, New York City.
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Burnett Bros., 98 Chambers St., New York.
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Leonard Seed Co., Chicago, Ill.
Seeds and Seed Service.
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American Bulb Co., Chicago, Ill.
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Thomas J. Grey Co., Boston, Mass.
Seeds, Bulbs, Implements.
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Roman J. Irwin, New York City.
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S. D. Woodruff & Sons, New York City and
Orange, Conn.
Garden Seeds.
For page see List of Advertisers.

Fottler, Fisk, Rawson Co., Boston, Mass.
Seeds for the Florist

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. LAGER
& HURRELL, Summit, N. J.

SWEET PEA SEED

Ant. C. Zvolanek, Lompoc, Calif.
Gold Medal of Honor Winter Orchid Sweet
Peas.
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VASES

H. Bayersdorfer & Co., Philadelphia, Pa.
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VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
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COMET TOMATOES—Fine plants grown
from Roney's special forcing strain in
sterilized soil. Strong 2 1/4 inch plants, \$2.50
per 100; \$22.50 per 1000. Cash please.
J. J. CLAYTON & SON, West Grove, Pa.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
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The John A. Evans Co., Richmond, Ind.
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VERMICIDES

Aphine Mfg. Co., Madison, N. J.
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WAX GOODS

Boston Floral Supply Co., Boston, Mass.
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WHEAT SHEAVES

H. Bayersdorfer & Co., Philadelphia, Pa.
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WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
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WIREWOK

Reed & Keller, New York City.
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WILLIAM E. HEILSCHER'S WIRE
WORKS, 264 Randolph St., Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
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Baltimore

The S. S. Pennock-Meehan Co., Franklin
and St. Paul Sts.
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Boston

Welch Bros. Co., 226 Devonshire St.
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Patrick Welch, 262 Devonshire St.
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Welch's, 280-282 Devonshire St.
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H. M. Robinson & Co., 32 Otis St. and 2
Winthrop Sq.
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Brooklyn

Wm. H. Kuebler, 28 Willoughby St.
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Buffalo, N. Y.

William F. Kasting Co., 568-570 Washing-
ton St.
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Chicago

Poehlmann Bros. Co., Morton Grove, Ill.
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J. A. Budlong, 184 North Wabash Ave.
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Zech & Mann, 30 East Randolph St.
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WHOLESALE FLORISTS
Detroit

Michigan Cut Flower Exchange, 264-266
Randolph St.
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New York

H. E. Froment, 148 W. 28th St.
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W. F. Sheridan, 133 W. 28th St.
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P. J. Smith, 131 West 28th St.
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Hentz & Nash, 55 and 57 W. 26th St.
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Charles Millang, 55 and 57 West 26th St.
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W. P. Ford, 107 W. 28th St.
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J. K. Allen, 118 West 28th St.
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The S. S. Pennock-Meehan Co., 117 West
28th St.
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Traendly & Schenck, 436 6th Ave., between
26th and 27th Sts.
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Badgley & Bishop, Inc., 34 West 28th St.
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Paul Meconi, 57 West 28th St.
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Woodrow & Marketos, 37 and 39 W. 28th St.
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Riedel & Meyer, Inc., 49 West 28th St.
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George C. Siebrecht, 109 W. 28th St.
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John Young & Co., 53 West 28th St.
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M. C. Ford, 121 West 28th St.
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United Cut Flower Co., Inc., 111 W. 28th St.
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Guttman & Raynor, Inc., 101 W. 28th St.
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Gunther Bros., 110 West 28th St.
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Henry M. Robinson Co., 55-57 W. 28th St.
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W. R. Siebrecht, 114 West 28th St.
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Herman Weiss, 106 West 28th St.
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J. J. Coan, 115 West 28th St.
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William Stuart Allen Co., 53 West 28th St.
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B. S. Slinn, Jr., 55-57 West 26th St.
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Joseph S. Fenrich, 51 West 28th St.
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Philadelphia

Leo. Niessen Co., 12th and Race Sts.
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Edward Reid, 1619-21 Ransstead St.
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The S. S. Pennock-Meehan Co., 1608-20
Ludlow St.
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Richmond, Ind.

E. G. Hill Co.
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WHOLESALE FLORISTS
Rochester, N. Y.

George B. Hart, 24 Stone St.
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Washington

The S. S. Pennock-Meehan Co., 1216 H St.,
N. W.
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New Offers In This Issue**BOLGIANO'S TOMATO SEED**

J. Bolgiano & Son, Baltimore, Md.
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BULBS AND ROOTS.

A. T. Boddington Co., Inc., New York City.
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CARNATION COTTAGE MAID.

Cottage Gardens Co., Inc., Queens, N. Y.
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EVERYTHING FOR THE GARDEN.

Peter Henderson & Co., New York City.
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MICHELL'S VERBENA SEED

Henry F. Michell Co., Philadelphia, Pa.
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PANSY AND VERBENA BASKETS.

G. P. Read, Inc., New York City.
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PLANTS AND CUTTINGS

Wood Bros., Fishkill, N. Y.
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**SPECIALISTS IN SPECIMEN STOCK
FOR LANDSCAPE WORK.**

Cottage Gardens Nurseries, Inc.,
Eureka, Calif.
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SUTTON'S SEEDS.

Sutton & Sons, Reading, Eng.
Winter, Son & Co., New York City.
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TOMATO SEED.

Willey's Farm, East Patchogue, L. I., N. Y.
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WHITE LILAC—GARDENIAS.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
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WHOLESALE FLORISTS.

Philadelphia Wholesale Florist Exchange,
1615 Ransstead St., Philadelphia, Pa.
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WHOLESALE FLORIST

L. B. Nason, 116 West 28th St.,
New York City.
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THE NUT-GROWER

The unique monthly publica-
tion which furnishes reliable
and interesting up-to-date in-
formation regarding the value
of pecans and other edible nuts
and how to grow them for profit.

Subscription, \$1.00 per year
Sample Copy Free

THE NUT-GROWER
No. 2 Francis St.
WAYCROSS, GA.

WANTS, FOR SALE, ETC.

Advertisements in this column
one cent a word. Initials count
as words. Cash with order. All
correspondence addressed "Care
HORTICULTURE" should be sent
to 147 Summer St., Boston.

HELP WANTED**Traveling Salesmen**

Representing Seed and Bulb Establish-
ments and calling on Country Estates, can
increase their income considerably by
taking up a PROFITABLE SIDE-LINE.
Write for particulars and with full infor-
mation regarding territory you cover, etc.
Address

X Y Z., care of HORTICULTURE

WANTED -Man with five to ten years'
experience in greenhouse; one who under-
stands growing carnations, chrysanthem-
ums and bedding plants. Address
"M. G. C." care HORTICULTURE.

SITUATIONS WANTED

SITUATION WANTED as foreman,
private or Commercial. Experienced in
roses, carnations, mums, Sweet Peas, vio-
lets, cyclamens, etc.; also fruit under glass.
Age 29; good references. "H. W." care of
HORTICULTURE.

FOR SALE

To the Man who Understands the Growing
of Flowers and Vegetables

THIS IS THE OPPORTUNITY

In an academic town 26 miles from Boston,
along a much traveled state road, with the
electric cars running by the door, and
within 10 minutes walk from the center of
the town

A FLORIST ESTABLISHMENT

consisting of a six room cottage, 7 acres
of the finest level land, 1 greenhouse 80 x 24
and showhouse along the street 16 x 14,
potting shed and boilerroom. Virtually the
only florist establishment in the town; high
grade retail trade; an opportunity to make
money. Price \$5,500; easy terms to the
right man. Apply to U. S. BURNS, Frank-
lin, Mass.

MISCELLANEOUS

WANTED TO RENT with privilege of
buying 10,000 to 20,000 ft. glass, with dwell-
ing house. New England or Massachusetts
states preferred. State full particulars in
first letter. Address T. C., care of HORTI-
CULTURE.

WANTED TO RENT OR BUY, near
Boston, 15-20,000 feet of glass, with dwell-
ing on place. Please explain it all in first
letter. Address "CARNATIONS," care of
HORTICULTURE.

PROPOSALS

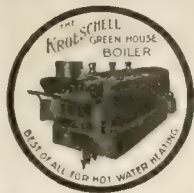
TREASURY DEPARTMENT, Supervising
Architect's Office, Washington, D. C. Jan-
uary 24, 1917.—SEALED PROPOSALS will
be received in this office until 10 a. m.,
February 24, 1917, and then opened, for
planting trees, shrubs, etc., on the grounds
of the Federal Building at Glens Falls,
New York; in accordance with the speci-
fication and drawing, copies of which may be
had upon application to the Custodian of
the building, or at this office. Jas. A.
Wetmore, Acting Supervising Architect.

In writing to Advertisers kindly mention Horticulture

Est. 1765

Pot Makers for a
Century and a Half**HEWS****STRONG
RED
POROUS****POTS**

Inc. 1904

World's Largest
ManufacturersStandard, Azalea, Bulb, Orchid, Fern, Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.Write for Catalogue
and Discounts**A. H. HEWS & CO., Inc., Cambridge, Mass.**Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.

If you need a boiler in a hurry telephone or telegraph at our expense

KROESCHELL BOILERS

SEND FOR CATALOG

Kroeschell Bros. Co., 466 W. Erie St., Chicago

PUBLICATIONS RECEIVED.

PRACTICAL SCHOOL AND HOME GARDENS, by George W. Hood, Associate Professor of Horticulture, in charge of Vegetable Gardening, University of Nebraska. This book is written especially for elementary school and home vegetable garden work. It can be used for school work between the sixth and twelfth grades, as its language is simple and lucid and it is also suitable for anyone who wishes to prepare and cultivate a home garden large or small as it covers all the ordinary problems of culture from seed or cutting up to harvesting time as in up-to-date practice, with special directions for each class of table vegetables. There are numerous engravings, also twenty-four planting diagrams for gardens of varying extent which will be found very useful by the garden maker. The book contains 182 pages and seems to fill a place that for a long time has been vacant. Valuable references are given at the end of each chapter for those wishing to know more about the subject. The book is published by Long & Company, Educational Publishers, Lincoln, Nebraska. Local seedsmen in every town should be able to dispose of many copies among their customers who aspire to raise their home vegetables and thus materially increase their seed sales.

FIELD NOTES ON SWEET PEAS, ALSO **HISTORICAL AND CULTURAL NOTES**. Edited by Lester L. Morse and published by C. C. Morse & Co., San Francisco. Price \$1.50. This is the leading Sweet Pea Manual published in this country and the present edition is revised and brought right up to date including the season of 1916. The contents are chapters on the following: Classes or Types and History of each; color classification and preferred lists; complete list of Spencers and Grandifloras with descriptions. Complete list of Early Flowering varieties with descriptions. List of Cupids. Mendelism. Culture for Exhibition. Culture for Ordinary Garden Use. Culture for East. Insect Troubles. Hints for Exhibitors. The lists of names comprise a grand

total in all classes and varieties of 1,870 names, a considerable number of which are confessedly synonymous. Alternate pages are left blank for observations and notes.

GROWING CHERRIES EAST OF THE ROCKY MOUNTAINS.—This is the subject of Farmers' Bulletin 776, of the U. S. Department of Agriculture, by H. P. Gould, pomologist in charge of fruit production investigation. Everybody likes cherries. Unrivalled in beauty when in bloom or attractiveness as fruit when ripe, delicious to eat as fruit or in the many forms in which it is cooked the cherry is something we like to read about and think about and so this bulletin interests us greatly. There are many fine illustrations. Plant more cherries.

GREENHOUSES BUILDING OR CON-
TEMPLATED.

Mattituck, N. Y.—Halsey Reeve & Son, two houses.

Tekamah, Neb.—Beum & Chase, range of houses.

Fort Dodge, Ia.—E. D. Curtis, Eagle Grove, one house.

Richmond, Va.—Ira L. Anderson 44th street, additions.

Little Compton, Mass.—Peckham Bros., one house completed.

South Sudbury, Mass.—Henry N. Eaton, one house completed.

Mt. Hope, Mass.—F. P. Falk, Berry street, one house completed.

Manchester, N. H.—Joseph Cerweny, McClintock street, one house.

Newton Center, Mass.—L. K. Liggett, 185 Hammond street, one house.

PATENTS GRANTED.

1,212,303. Weeder. Wilson W. Wilt, Elkhart, Ind.

1,212,427. Mowing Machine. Royal A. Wass, Berkeley, Cal.

1,212,563. Combined Weeder and Cultivator. Elijah F. Rowe, Big Falls, Minn.

1,212,644. Seed Gatherer. Joseph G. Johnson, Eustis, Fla.

Hanover, Mass.—William Cain, of Newton, has taken over the florist business of George F. Sylvester and will erect additional greenhouses.

**NON-KINK WOVEN HOSE**

In any length (one piece) with couplings, 15c. per foot. Unequalled at the price.

**Hose Valve, 70c.**

All brass except the hand wheel. Has a removable leather disk which is easily replaced to keep water tight. Stuffing box prevents leaks at stem.

METROPOLITAN MATERIAL CO.

1392-1414 Metropolitan Ave., Brooklyn, N. Y.

**DREER'S**

Florist Specialties, New Brand, New Style. Hose "RIVERTON." Furnished in lengths up to 500 ft. without seam or joint.

The HOSE for the FLORIST
 1/2-inch, per ft., 15 c.
 Reel of 500 ft. " 14 1/2 c.
 2 Reels, 1000 ft., " 14 c.
 3/4-inch, " 13 c.
 Reels, 500 ft., " 12 1/2 c.

Couplings furnished
HENRY A. DREER,
 714 Chestnut St.,
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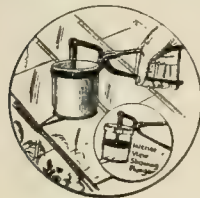
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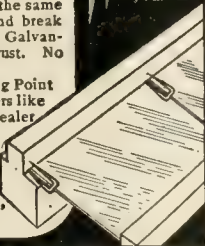
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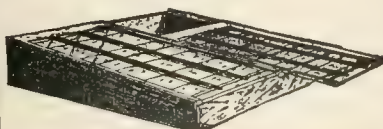
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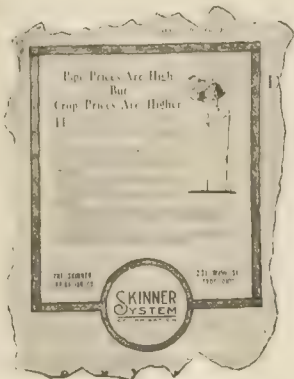
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Vol. XXV
No. 5
FEB. 3
1917

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CHARLES HENDERSON. 4 ft.30	2.00	17.50
CHEROKEE. 4 ft.25	1.50	14.00
CRIMSON BEDDER. 3 ft.40	2.75	25.00
DUKE OF MARLBORO. 4½ ft. ....	.25	1.75	15.00
FURST BISMARCK. 4 ft. ....	.25	1.65	15.00
GRAND CHANCELLOR BULOW. 3 ft. ....	.25	1.65	15.00
EXPRESS. 2 ft. ....	.50	3.25	30.00
J. D. EISELE. 5 ft.25	1.65	15.00
LOUISIANA. 6 ft.25	1.65	15.00
MEPHISTO. 3½ ft.25	1.65	15.00
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PENNSYLVANIA. 5 ft.25	1.65	15.00
PRESIDENT CLEVELAND. 3 ft.30	2.00	17.50
PRES. MEYER. 4 ft.30	2.00	17.50
PILLAR OF FIRE. 6 ft. ....	.30	2.00	17.50
TARRYTOWN. 3½ ft. ....	.30	2.00	17.50

White and Cream Shades

	Doz.	100	1000
ALSACE. 3½ ft.	\$0.35	\$2.25	\$20.00
MONT BLANC IMP. 3½ ft. high. ....	.55	3.75	35.00
MINNEHAHA. 4 ft.	1.80	12.00	100.00

Pink Flowering Cannas

	Doz.	100	1000
HUNGARIA. 3½ ft.	\$0.55	\$3.75	\$35.00
LOUISE. 5 ft. ....	.30	2.00	17.50
Mlle. BERAT. 4½ ft. ....	.30	2.00	17.50
MRS. ALFRED F. CONARD. 4 ft.	1.25	8.00	75.00
VENUS. 3½ ft. ....	.30	2.00	17.50
SHENANDOAH. 6 ft. ....	.25	1.65	15.00

Bronze-Leaved Red-Flowering

Cannas

	Doz.	100	1000
BRANDYWINE. 5 ft.	\$0.30	\$2.00	\$17.50
DAVID HARUM. 3½ ft. ....	.40	2.75	25.00
DR. E. ACKERKNECHT. 4 ft. ....	.40	2.75	25.00
DR. BUDINGEN. 4 ft. ....	.25	1.65	15.00
EGANDALE. 4 ft. ....	.30	2.00	17.50
ROBUSTA. 6 to 8 ft. ....	.25	1.65	15.00

Yellow and Yellow Spotted

	Doz.	100	1000
FLORENCE VAUGHAN. 5 ft.	\$0.30	\$2.00	\$17.50
JOHANNA KANZLEITER. 3½ to 4 ft. ....	.25	1.65	15.00
RICHARD WALLACE. 4½ ft. ....	.25	1.65	15.00
GLADIATOR. 4 ft. ....	.25	1.65	15.00
AUSTRIA. 5 ft. ....	.25	1.65	15.00

Orange Shades

	Doz.	100	1000
MRS. KATE GRAY. 6 ft.	\$0.25	\$1.65	\$15.00
WYOMING. 7 ft. ....	.25	1.65	15.00
INDIANA. 6 ft. ....	.25	1.65	15.00

Yellow-Edged and Gold-Edged

Cannas

	Doz.	100	1000
ALLEMANNIA. 4 to 5 ft.	\$0.25	\$1.35	\$12.00
AMERICA. 5 ft. ....	.25	1.35	12.00
DUKE OF YORK. 5 ft. ....	.40	2.75	25.00
GLADIO-FLORA. 3½ ft. ....	.25	1.65	15.00
ITALIA. 4½ ft. ....	.25	1.50	14.00
JEAN TISSOT. 5 ft. ....	.25	1.65	15.00
MAD. CROZY. 5 ft. ....	.35	2.25	20.00
PANAMA. 4 ft. ....	.90	6.00	50.00
QUEEN CHARLOTTE. 3½ ft. ....	.40	2.75	25.00
SOUV. de A. CROZY. 4 ft. ....	.35	2.25	20.00

Cannas in Separate Colors,

Named

RED, YELLOW, PINK, VARIEGATED, GOLD EDGED AND BRONZE FOLIAGE. Named sorts strictly our selection of varieties. 25c. per doz.; \$1.65 per 100; \$15.00 per 1000.

Cannas Mixed

All colors. 25c. per doz.; \$1.50 per 100; \$14.00 per 1000.

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Arthur T. Boddington Co., Inc., 128 Chambers Street, New York City

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur C. Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Apply Bone and Tankage Now

As soon as the weather gets so that it will be clear for two or three days at a time, it will be perfectly safe to apply top dressings of bonemeal or tankage. This had better be used now, so that the plants will be sure to get the full benefit of it before they are taken out. Sheep manure can also be used, as soon as the plants show good growth coming on. Before applying any of the fertilizers it will be well to give all the benches a thorough cleaning, removing all dead leaves, pulling up all weeds, also rubbing over the surface a least bit. Steel scratches or weeders should never be used for this work, as no matter how careful the man using them can be he is bound to tear some of the roots. If the plants have just finished a crop and are not starved at all it will be best to water very carefully and not apply any feed until they start again. Syringing quickly twice a week will help the break. See that the plants are wet enough at the root before applying any fertilizer no matter what it may be. Should they be at all dry, the roots will take the feed up too quickly when water is applied and will thus receive a bad check and lose some of their leaves. Better water one day and apply the feed the next. This will insure all plants against any harm from root and foliage burning due to fertilizer.

Temperature During Cloudy Weather

The houses will not want to be too warm during dark cloudy or even foggy days. So far the weather has been fairly good, clear and cold. Have the thermometers read about 66F. with a little air on. This on cloudy days. When only partially cloudy, the temperature can be allowed to get to 72, but no higher than that, as the plants would get very soft and be likely to get mildew here and there. If the weather should continue cloudy for several days it will be better to run even cooler, and the temperature can be allowed to go down to 64F. with a crack of air on. Of course if it is stormy or the wind blowing very hard it will be better not to carry any air, as ice would be likely to form under the ventilators making it impossible to shut them tight for the night.

Keep the Propagator Going

There is only about six weeks in which to root the rest of the cuttings to make the required number of plants for the season, so the propagator should be kept going full all the time. As soon as the first lot of cuttings is taken out another lot should be put in, providing the sand is clean enough for them. When taking out the first lot see that the sand is left clean so that there will be no old leaves, and partly decayed cuttings left in the sand to decay and house a lot of fungus which will spring right at the new cuttings and kill them soon after they are put in. Level the sand well, after which it should be gone over with a brick or some other heavy tool pounding it gently yet firmly until it is very firm. Then when the temperature rises to the proper degree which should be around 66F, the sand will be ready for the cuttings. These should be put in as rapidly as possible so there will be no chance for their getting dry. As soon as a piece of bench is filled, water the cuttings

well, being careful not to use too much pressure so that they will not be disturbed in the sand. After each row is put in they should be well firmed by laying a piece of lath right up to them and tapping this with a hammer or a brick; not too hard, for the vibration thus produced would be sure to loosen the sand around those nearby. If any of the shading has washed off it will be necessary to apply more, especially now that the days are a little longer and the sun much stronger.

The First Potting

As soon as a batch of cuttings get so that the roots are half an inch or longer, they cease to be cuttings and become plants. A bench of sand is no place for little plants and the sooner they are taken out and potted the better for them. Use nice fresh soil such as we suggested last week and use clean pots. It will pay in the long run. When lifting the cuttings from the sand see that the work is done carefully so that there will be little danger of breaking roots. These new roots are very crisp and tender, thus easily broken. Take out only a limited number of cuttings, for it will not take much exposure to the air to dry up and shrivel the roots, which will never come to life again once they go down this way. Unless the soil is very heavy it will not be necessary to put any crock into the small pots used for the first potting. If it should be thought necessary then a little screened ashes will do the trick. Care should be taken to fill all the pots evenly so that there will be no trouble in watering them. The amount of empty space allowed on top for water will have to be determined by the nature of the soil. The top of the pot should hold enough water to thoroughly saturate the soil beneath. If this is determined by experiment, and all the pots filled up the same way, there should be no trouble about watering, or keeping the plants evenly wet at all times.

Where to Put the Plants

The best bench in the house is none too good for the young plants, as they will or they will not produce the income the coming year. Therefore the front bench should always be taken out and the plants given this to grow on. If time will permit, all the old soil should be taken out, then the bench should be well washed out and whitewashed. After this a layer or two of newspaper can be spread over the bench bottom, over which an inch or two of screened ashes is applied. These are leveled off well and lightly tamped down, after which the bench is ready for the pots. If there is plenty to do, the soil can be left in the bench, merely taking off about an inch from the top, to get rid of any leaves and mulching that may have been applied when roses were planted there. After this is done and the soil leveled, a good coat of air-slacked or hydrated lime should be applied. This will kill all the earth worms it reaches and those that will remain will never attempt to crawl through the lime into the pot. Over the lime the ashes should be applied using about two inches in order to make sure that no pots will set into the lime, as this would seal the drain in the bottom of the pots and make it very unhealthy for the cuttings.

Sweet Pea Notes

If not already attended to, a start should now be made in sowing sweet peas for next summer's flowering, and where the very best results are desired the seed should be sown in pots. Use $3\frac{1}{2}$ or 4-inch pots, and a suitable compost consists of turfy loam, leaf mold and a little sand, all thoroughly mixed. Instead of troubling with crocks I usually have a little of the roughest of the turf placed in the bottom of the pot for drainage, afterwards filling the pot to within $1\frac{1}{2}$ inches of the top. Over this is placed an inch layer of sharp sand into which the seed is sunk half an inch; the use of the sand being to prevent the seed rotting ere germinating, as many seeds so often do when sown in rougher soil.

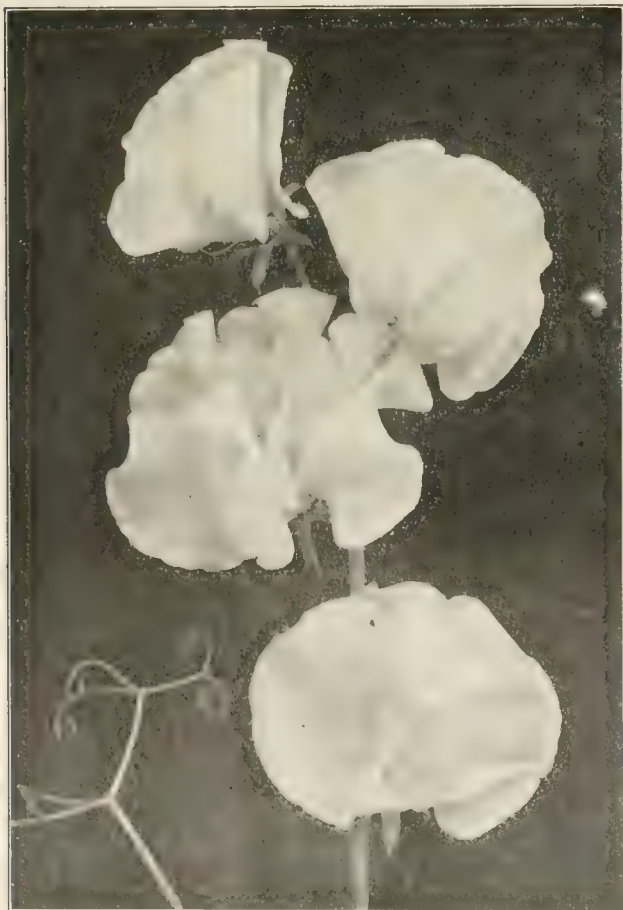
Four seeds will be ample for each pot, making all firm and labeling each variety as it is sown. The pots should be placed in a comparatively cool greenhouse and kept as near the light as possible so that growth will be sturdy and dwarf.

When the young vines are two or three inches in height, the support of a few twigs in the pots will help to keep them in an upright position, and encourage regular growth.

After the first thorough soaking to settle soil and seeds, great care should be taken not to overdo the subsequent waterings. If the plants have been grown quite cool they may be removed to cold frames when two inches or so in height, but care must be taken to carefully cover the sash for the first few nights after removal from



YARRAWA.



MARGARET ATLEE.

greenhouse, or until they get perfectly hardened. Give air on all favorable occasions, and some time in March, according to weather conditions, the sash may be kept off entirely.

As a perfect root system is necessary for the development of good flowers, and to insure a long flowering period, the plants should be set out just as early in the spring as weather conditions will allow, and if they have been properly hardened off a few degrees of frost will not hurt them in the least.

Just a word as to varieties. If growing primarily for cutting purposes use Nora Unwin as a white, Elfrida Pearson or Lady Evelyn Eyre, light pinks; Hercules, rich rose-pink; Constance Oliver or Margaret Atlee for deep cream-pink; Mrs. Routzahn for light cream-pink; Wedgwood, blue; Margaret Madison, lavender-blue; Orchid and Florence Nightingale, lavender; King Edward Spencer, crimson; Rosabelle and George Herbert, shades of rose.

It might also be well to make a good sowing of Yarrawa as this fine early or winter flowering variety will begin to flower at least two weeks earlier than the first named sorts, while it will continue to bloom as long as what are known as the summer-flowering varieties.

Then the sweet pea lover must also have such invaluable sorts as Royal Purple, Fiery Cross, Constance Hinton, King White, Floradale, Fairy, The President, Cherub, Mrs. Cuthbertson and Wedgwood.

Geo. W. Kerr.

Sweet Peas in California and Massachusetts

Editor HORTICULTURE.

Referring to Eureka Giant Sweet Peas as shown in your cover illustration last week, seeing that my name was brought into the matter by our good friend Mr. Ward when he asks if I or any English grower can beat it (some conceit isn't it?) I would say candidly that equally as good has and are being grown around Boston. Upon close examination of the picture we see quantities of petals on the ground near Mr. Ward's feet which shows that the blooms had been allowed to accumulate for some time; the number of such pods and half wilted blossoms in sight indicates the same thing. However, it is the best picture of sweet peas growing in California I have seen and great credit is due Mr. Ward for showing the people on the Coast what well grown sweet peas look like.

In California, ideal conditions exist for the full development of the sweet pea. In the East we are greatly handicapped in that respect. The variety Illuminator, which is represented in the picture, belongs to the late-flowering class which, owing to the length of time required to bring them into bloom, makes them unprofitable for the grower and they are only grown as an outdoor proposition. If Mr. Ward is going to give us something worth while in a new race of sweet peas they must belong to the early flowering class. This type will produce, I should say, at least six to one to the class in which Illuminator belongs. Mr. Ward states that they have been in bearing for three months which goes to show that climatic conditions are ideal. I am enclosing photograph in courtesy to Mr. Ward, (even if it is from Boston) of a row, or hedge as he calls it, of the type of sweet pea we wish. This photo shows the vines in their third month of bearing, but the blossoms shown had all matured on the three days previous to the taking of the picture. Had they been allowed three days longer to remain on the vines there would have been at least twice the quantity of blooms shown. Owing to the space allotted for them it was hard to make a good photo. Because of the close proximity of the side of the greenhouse we could not show the height of the vines but they are 12 feet high. The variety is Zvolanek's Venus. It is hard to get the loose effect which Mr. Ward's picture shows owing to the fact that the side shoots have to be strung closely to the row to assure straight stems. Take



SWEET PEA ZVOLANEK'S VENUS.

As Grown by William Sim.

it all in all our friend has done well for a start. Try again, my friend, try again!

William Sim

Cliftondale Mass.

SWEET PEA BUDS DROPPING.

Will some one kindly tell me the reason for my sweet pea buds dropping off like enclosed specimens? I have been picking flowers since before Christmas and up until now they have been very good, but this last week I have noticed them falling away. The vines look very healthy. I have not given them any feeding in over a month, but when I do it is sheep manure I use and a small quantity at a time, and I keep the temperature at night from 45 to 50 and from 50 to 60 degrees during the day, or as near to that as I possibly can.

New York.

A. J. M.

In reply to yours regarding the withering of the buds of sweet peas, would say that in my opinion the plants were perhaps heavily watered and then the temperature was allowed to get too low or the house over-charged with moisture which was allowed to get cold and clammy. At this season when watering is done enough steam should be kept up to keep the atmos-

phere of the house sweet and buoyant. The day temperature should be allowed to reach, with the sun out, 58 to 60; if cloudy 67 and drop to night temperature with steam and a little ventilation on. I think your correspondent is keeping the night temperature all right but not high enough through the day.

WILLIAM SIM.

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Buy
 now and
 buy right

Warning of the increasing scarcity of many sorts of flower seeds—those especially which are supplied from foreign sources—has been given repeatedly in our seed trade notes and elsewhere of late. On some of

these, prices have taken a big jump already, which is bad enough but the likelihood of an absolute clean-up before the season is half under way is much more serious. We would urge upon all our readers to make up the lists

of what they require and get their seed orders placed at the earliest possible date. Nothing can be gained by procrastination for conditions are sure to be less favorable later on. No one needs to look any further than the seed houses advertising in HORTICULTURE. They are representative merchants and you'll gain in the long run by sticking to the class you find advertising regularly in HORTICULTURE's pages.

The season of annual festivities and indoor recreation in club and society circles is on. **As you like it** The momentous question of how to fittingly plan such celebrations has cost many an earnest committeeman sleepless hours and no end of worry. Some organizations adhere tenaciously to the time-honored "stag" dinner—a "laughing, quaffing and unthinking time" with speeches and songs and stories, "so many, and so many, and such glee." Others prefer to doll up and invite the ladies to come and "trip the light fantastic toe." Here under the allurements of the mirthful maze the caterer's art soon goes into the discard and the toastmaster's "We have with us this evening" becomes a dust-dry bone to impatient revellers chafing to

"Knit hands and beat the ground
 In a light fantastic round."

Each variety has its staunch and uncompromising advocates. Take your pick.

The
 carnation's
 place

Nothing but good can come out of the earnest discussions of the commercial status of the carnation as a cut flower which have been going on and, we hope, will still continue in the columns of HORTICULTURE. Incontrovertible facts have been brought out on all sides of the question. On one thing every writer agrees—that there is room for improvement in carnationdom, and the start seems to have really begun, for recognition of one's failings is the first step in any reformation. As these lines are being penned the cohorts of the divine flower are assembled at Indianapolis intent upon doing something in a concrete way to advance the interests of the carnation and American carnation growers. The secretary's warning note of decreasing membership is plain evidence that a good shake-up and revival would not be inopportune. And the Carnation—bless her—is well worthy of it.

A flower
 of the future

The call for "odd things" in cut flowers—sorts that have not figured noticeably in the offerings of the city flower stores heretofore—has become so searching and insistent that not a few flower growers are now making a good business out of growing such as specialties for the market in the larger cities. Boston has, perhaps, taken the lead in this departure from the "old ruts." We have just noticed an interesting article by F. Herbert Chapman in the Horticultural Trade Journal, (British) on "Freesias and Nerines," two bulbous plants of which he thinks much more might be made. The freesias, of course, have for a long time been firmly established favorites in this country but the nerine is scarcely known outside of the private conservatories. As Mr. Chapman says, the nerine is plainly on its way to ultimately take its place in the flower market as a plant of great utility. It flowers in innumerable tints from white to scarlet, crimson, rose pink and cerise and its only serious drawback is its slowness to increase but that obstacle will be easily overcome, no doubt, as soon as our invincible California bulb growers get busy with it. As to its reception in the flower market there can be no question.

THE "WHY" OF THE CARNATION

Editor of HORTICULTURE:

Dear Sir—I once heard the late Denys Zirngiebel say "the pansy and carnation are the flowers of the many—the rose, orchid and violet the flowers of the few," but from present indications the carnation must be placed with the rose, orchid and violet, for when carnations sell for \$1.50 to \$3 per dozen they cease to be within the purchasing power of the great middle class who love, and would be buyers, but have not reached the income-tax stage, yet would buy if they could buy at prices which prevailed a few years ago. No doubt there is a demand for high priced carnations, yet the price limits the number of buyers.

These large flowers with stiff stems lack one most essential element of a perfect flower—they have little or no fragrance, and only appeal to the eye, and the varieties of this class are only a success when grown by the specialist (and sometimes not with them) and when grown by the ordinary grower they are truly "rubbish."

I believe the present system of planting in the field late in May and housing in July is entirely wrong. When housed three to five plants are required to make a substantial bench showing, it being called "doubling-up." It is a well-known fact that carnations in the field make more wood in the month of August than in May, June and July combined and if lifted carefully during the first ten days of September there would be no need of "quadrupling" the plants, for they would have from 25 to 40 sturdy branches.

I can well recollect such varieties as DeGraw, Silver Spray, Crimson King, Ferdinand Mangold, William Scott, Mrs. Fisher, Hector, Astoria, Buttercup, Mad. Brett and others, which, with the exception of the last two, would give plants of an average of 30 branches when lifted and produce from 60 to 100 flowers each during the season, and Buttercup and Brett about 20 blooms. While Mrs. Fisher had a weak stem when grown too warm the others had very good stems from 12 to 15 inches long—fully as stiff as many grown today—with the flowers from 2 to 3 inches in diameter, and none of them "a puny little thing on the end of a piece of string capable of being tied in a knot."

The flowers of the above mentioned varieties in the hands of an ordinary grower were as perfect and as beautiful as those of today, with a delicate, rich fragrance and would keep as well as any carnation ever grown. When planted in September, by removing all buds from one-third of the plants, one-

half the buds from one-third of the plants and thinning the buds on the other third of the plants, we had a continuous bloom from October until the following July—with nearly the same cut in December and January as was produced in April and May. Carnations should be sold at retail—except at holidays—for 75 cents per dozen in winter and 50 cents in spring and autumn. A good, fair-sized flower, and they can be grown and sold at those prices at a profit to the grower and retailer if the right varieties are grown. If we are only to have the \$3 varieties, and the resultant rubbish of that class, the trade in carnations will rapidly decline, for it has begun.

\$6 and \$10 chrysanthemums have had their day—the \$3 carnation will have its day. While we all recognize the great advance in knowledge at the present time, still the past is rich in experience which would be profitable not to forget or entirely disregard.

R. T. LOMBARD.

112 Canal street, Boston, Mass.

Editor of HORTICULTURE:

I would like to have a little space in your valuable columns in regard to "The 'Why' of the Carnation." As to the diminished sales of carnations, there are quite a few reasons; I can only speak of St. Louis. One cause is the growing of inferior grade stock. Another the cutting of stock not at the right stage, another the bunching of them for market, the placing of inferior flowers in bunches which otherwise would at least have been fairly presentable. The wholesaler also is in my opinion to blame in asking prices for flowers not worth the money, thus merging quality and quantity into the same channel.

Extra fancy, long stiff-stem blooms, out of the ordinary size flowers, should command top price, but I hardly think that any florist in St. Louis would ask \$2.00 a dozen for carnations.

Then again, carnations in St. Louis are at times sold as low as two dozen for fifteen cents and run as a special by some prominent retailer on Saturdays downtown. These flowers probably had reposed in the wholesaler's ice box three or four days; or, perhaps, by the shipper who does some retailing himself and who, finding he has a crop coming on, finally decides to ship the kept-over stock to the market. The public buy the flowers, take them home, place them in a quiet little room, no noise, and on return finds the flowers taking a sleep which knows no awakening. This disgusts the general public and condemns the carnation. I believe with Mr. Goddard that better grade and better care in all stages would help to put the carnation in its right place.

St. Louis.

C. W. WORS.

Editor of HORTICULTURE:

Dear Sir:—It was a source of great pleasure to see the article "The 'Why' of the Carnation" appearing in your issue of Jan. 20.

We ship wholesale to about seventy florists in our trade territory, which extends from Asheville, N. C., on the Northeast to Memphis, Tenn., on the northwest, San Antonio, Texas, on the southwest and Key West on the southeast. If you will look at the map you will see that this territory covers between seven and eight hundred miles. We have very little trouble getting from one to two cents more for our stock than Chicago price. Sometimes we have complaints, but we answer this by saying that our stock is this much better class goods, and our customers must believe it for they buy us out every day.

In all of our pricelists of this season, we have been harping on the one thing, and that is, quality. Our stock, shipped from here to Houston, Texas, which is a twenty-four hour trip, is salable from five to seven days after arrival at destination. When put into a vase it never falls over and touches the table, as I have very often seen the Chicago stock do.

I have copied Mr. Goddard's article in full and am now sending it out to our customers.

Thanking you for the printing of Mr. Goddard's article and wishing for you the best of success,

Very truly yours,

WALLACE B. PATERSON.

Rosemont Gardens,
Montgomery, Ala.

BEGONIA EPIRUS.

J. S. Doig, of Southboro, Mass., sends us a photograph, which is scarcely clear enough for reproduction, of winter-flowering begonia *Epirus* which shows this to be a splendid variety. The flowers are salmon pink, 4½ inches in diameter. Mr. Doig states that the plant shown lasted in flower for ten weeks. It was exhibited in Boston on Nov. 1, where it remained for five days, was then sent back to Southboro by express, thence to Marlboro on the 6th and again to Southboro on the 7th, the photograph showing it still in full flower being taken in last week of December. All the other varieties exhibited with it in Boston lost their flowers when put back in the greenhouses. These facts would indicate that this should be a good variety for commercial use.

Jan. 26, 1917.

The Horticulture Pub. Co.,
Boston, Mass.

Gentlemen: Enclosed please find check for my subscription to your magazine. I will take this opportunity to say that I think it the most practical and up-to-date publication which I have found.

Very respectfully yours,

A. S.

AMERICAN CARNATION SOCIETY

A Well-Attended and Enthusiastic Meeting and Splendid Exhibition—Boston Selected for 1918 Convention—
W. J. Vesey, Jr., Elected President

As HORTICULTURE goes to press the American Carnation Society, in session at Indianapolis, Ind., is just about donning its "glad apparel" for the annual "feast of reason and flow of soul." Our brief reports by telegraph indicate a serious business convention with plenty of enthusiasm on the part of officers and members for the coming year's work. A more detailed report of the proceedings will be given in our issue of next week.

At the opening session on Wednesday evening there was a good attendance and President Ammann delivered his annual address, as follows:

President J. F. Ammann's Address.

Ladies, Gentlemen, Fellow Craftsmen:

As presiding officer of this organization that has so vastly advanced the interests of not only carnation culture, but floriculture in general, I deem it indeed an honor to welcome you to this the twenty-sixth annual meeting of the American Carnation Society in this beautiful and centrally located city of Indianapolis.

It is unnecessary for me to repeat at this time the history of this organization. Suffice it to say that I feel more and more as I grow older the touch of good fellowship that a meeting like this brings with it. Here we co-mingle in brotherly love with fellow craftsmen from all over this fair land of peace and prosperity; here we renew old acquaintances, and make new ones; now and then we miss an old familiar face—we ask the reason, and find that he has passed on to the great beyond. As the old varieties of our beloved carnations, we miss them but never forget them. It is these fond greetings and memories that really make life worth living after all.

To the members of our craft who are so diligently working to produce new varieties of merit we are probably more indebted than we realize, for were it not for something new occasionally the public interest would soon wane. The American people are great on fads, and in order to keep up an interest new things of special merit are always in demand. I dare say nothing has popularized the rose so much the last few years as the coming on of so many new varieties of merit, and the end is not yet, which I am sure you will be convinced of in your visit to the E. G. Hill Co. place at Richmond. A friend recently told me it was worth a trip across the continent to see the seedling roses there, so I went and I now testify that the statement is true. We see here what one firm can do by untiring efforts in roses. I contend the same must be done in carnations in order to keep this flower as popular in the future as

it has been in the past. Much indeed is being done along this line by quite a few of our trusty old friends, but what seems just at this time to lack in the new production of carnations is that they have not enough merit to replace the older varieties. Either they do not produce enough to be profitably grown as standards, or the quality is not good enough to command the extra price a fancy should. But all good things come to those who wait, so let us be patient and I am sure we shall soon be rewarded.

I have but a few suggestions to offer at this time. One I think worthy of, is to recommend that the number of blooms necessary for a preliminary certificate for the Dorner memorial medal, be changed from 50 to 25 blooms. It has been suggested that many times it is hard to get 50 good blooms from a new variety where not so many plants are grown.

We have an evergrowing demand for the society's co-operation with local flower shows, which I am sure we cannot afford to ignore. At the board of directors' meeting in Cleveland on Nov. 12, 1915, a motion was passed to the effect that the board recommend to the convention following in January that the A. C. S. lend its co-operation to local flower shows, provided the schedule, the judges and the underwriting of said show be approved by the president and secretary of this society. I take it that the intention here was to have the society offer its usual medals and certificates. However, this matter never came before the regular January meeting owing, I guess, to an oversight. I feel it is of such importance that I would recommend that at this meeting the officers be authorized to carry out the intent of this resolution, or that at least some action be taken on the matter towards such a co-operation. For the more we can induce the exhibits of carnations the more we can popularize that flower.

I too would recommend that the secretary be authorized to place an advertisement in each of the trade papers, say, when the premium schedule is ready, calling attention to the fact that premium lists are to be had on application, and stating to those who are not members to include price of membership fee, so as to be eligible to exhibit. I believe this will not only help us to get more exhibitors but also new members. On behalf of the Society I want to extend thanks to the trade press for the vast amount of free publicity given the carnation whenever opportunity has presented itself.

In closing I want to heartily thank the secretary, Mr. Baur, for his kind co-operation and advice in many

things. Also Mr. Vesey, our worthy vice-president, for his untiring efforts in leading on the preliminary work of this meeting and show. To the local committees and especially to the exhibitors I feel deeply grateful for their hearty co-operation in helping to bring about this creditable show. To the members of this Society I feel much indebted for the honor conferred upon me in the unanimous election as your president. I assure you, gentlemen, it will ever bring to me fond memories of your friendship in years to come, and my good wishes and prayers will be with you always.

The secretary's report was presented as follows:

Report of Secretary A. F. J. Baur.

During the past twelve months, the secretary's office has been unusually busy. With our participation in the National Flower Show in Philadelphia last March and the soliciting of funds in aid of Miss Anna Jarvis, there has been much extra work and some additional expense. The receipts, however, have also increased somewhat, though not quite as much as the expense, so that at the end of this fiscal year we find ourselves with somewhat less money in the general fund than a year ago, but still in very good condition.

During the past year the secretary's office has received in dues, \$729.00; advertising, \$261.85; miscellaneous, \$46.05; Mothers' day, \$154.00; total, \$1190.90, all of which was turned over to the treasurer and his receipt taken therefore.

The secretary's and treasurer's books were checked over by a public accountant and found correct. All bills are being met promptly and all accounts due the society are being collected without loss. We are pleased to note that 26 pages of advertising space in this year's premium schedule were taken by our members and friends. We feel that our members should make an effort to patronize these advertisers as much as possible, in order to make it worth their while to use these pages as an advertising medium.

The one department that gives the secretary more concern than any other is the membership list. During the past year we have taken in 45 new members and reinstated 6, yet in spite of this unusual number of new additions, we are now 13 members behind last report. The list now stands at 312 annual members and 12 life members, making a total of 324.

During the past year we lost Albert Roper, who died March 1st, Wm. F. Kasting, who died June 15th; Thos. C.

Joy, who died Nov. 10th; and W. L. Kroeschell, who died Nov. 23rd. All of these men were favorably known to most of you and will be missed at our future conventions.

We have 217 members in good standing in the Society of American Florists and therefore continue to be represented on their Board of Directors. Our present president, Mr. Ammann, was selected to that position, to serve during the year 1917.

Since the last meeting, we have received seven new varieties for registration. Fourteen others were sent over by the Perpetual Flowering Carnation Society of England.

A special silver medal was struck to commemorate the society's twenty-fifth year and was awarded to each winner of a first premium in the carnation section at the National Flower Show in Philadelphia last March. Those who received these medals are S. J. Goddard, E. G. Hill Co., Strafford Flower Farms, J. W. Minott Co., E. F. Lieker, Cottage Gardens Co., A. A. Pembroke, Strouts, Wm. Kleinheinz, W. L. Ellis, Wm. Graham, Mrs. Wm. Austin, A. Harvey & Sons, Countess Eulalia and W. E. Lenk. Fifteen in all.

This society took a very active part in the National Flower Show in Philadelphia last March. Not only did we prepare the premium schedule and the rules for staging the carnation section of the show, but members of this society contributed \$515.00 toward paying the premiums of this department, thereby reducing the liability of the management to that extent. Our silver and bronze medals were also awarded as sweepstakes in the 100 bloom section.

Early in the year, the secretary by direction of the Board of Directors, solicited funds from the members for the Mothers' Day fund which was being raised by the Society of American Florists, for the purpose of assisting Miss Jarvis in promoting that day. \$154.00 was raised and sent to Secretary Young.

The Board of Directors held the customary post convention meeting on January 27th in St. Louis. A second meeting was held in Philadelphia on March 28th, instead of the usual mid-summer meeting. At this meeting some changes were made in the premiums offered, in most of the classes contained in the premium schedule for this year's exhibition. In section A, classes 1 to 11, the premiums were raised from \$10.00 and \$6.00 to \$15.00 and \$10.00. In section B, classes 11 to 36, the premiums are raised from \$5.00 and \$3.00 to \$8.00 and \$5.00. In section C only one premium, \$10.00 is offered instead of \$6.00 and \$4.00. These changes have increased our liability on premiums by \$219.00. Five disseminators have again very generously contributed the premiums in section C.

The identification badges you are wearing were provided as a result of the action taken in the meeting at St. Louis last year. They are the most practical article we were able to find for the purpose. If they are satisfactory we shall continue to use them in the future.

The arrangements for this meeting were left entirely in the hands of our

Vice-President, Mr. Vesey, and his committees selected from the state society. That they have labored earnestly and harmoniously you can see by the results accomplished. The retail men have come forward with a splendid demonstration of the carnation's adaptability for decorative affects. They should be given credit and every encouragement possible.

The trade press has opened its columns to everything we have sent in for publication. To them is due our thanks.

The treasurer's report followed, as below:

Report of Treasurer F. E. Dorner.

GENERAL FUND.	
Expenses.	
Orders on Treasurer paid.....	\$1,205.34
Jan. 20, balance cash on hand	\$16.29
	\$2,021.63
Receipts.	
Jan. 20, 1916, cash on hand	\$838.69
Cash received during year.....	1,182.94
	\$2,021.63
PERMANENT FUND.	
Jan. 20, 1916, balance.....	\$2,625.31
Jan. 1, 1917, interest.....	106.04
	\$2,731.35
Jan. 20, 1917, interest to general fund.....	\$106.04
Balance invested at 4%.....	2,625.31
	\$2,731.35
DORNER MEMORIAL FUND.	
Jan. 20, 1916, balance.....	\$1,002.01
Jan. 1, 1917, interest.....	40.48
	\$1,042.49
Transferred to general fund for 1917 medal.....	\$40.00
Balance invested at 4%.....	1,002.49
	\$1,042.49
MOTHERS' DAY FUND.	
Cash	\$154.00
Paid to John Young, sec'y for Anna Jarvis Fund.....	154.00

Officers to serve for the next year were nominated, and the nominations afterward concurred in by acclamation, as follows: President, W. J. Vesey, Jr., Fort. Wayne, Ind.; vice-president, C. S. Strout, Biddeford, Me.; secretary, A. F. J. Baur, Indianapolis, Ind.; treasurer, F. E. Dorner, Lafayette, Ind.; Peter Fisher, director to succeed himself. Boston was selected as the location for the convention of 1918.

THE EXHIBITION.

John H. Dunlop, Toronto, Ont., and Wm. R. Nicholson, Framingham, Mass., were appointed judges. The following awards were reported:

List of Awards.

SECTION A.

VASES OF 100 BLOOMS.

White—C. S. Strout, Biddeford, Me., 1st with Matchless; Cottage Gardens Co., Queens, N. Y., 2nd with Crystal White.

Flesh Pink—F. Dorner & Sons Co., Lafayette, Ind., 1st with Seedling No. 118; C. S. Strout, 2nd with Superb.

Medium Pink—Cottage Gardens Co., with Mrs. C. W. Ward; E. A. Richards, Greenfield, Mass., 2nd with Seedling No. 110.

Dark Pink—F. Dorner & Sons Co., with Rosalie; Mt. Greenwood Cemetery, Ill., 2nd with Rosette.

Scarlet—Baur & Steinkamp, Indianapolis, Ind., 1st with Merry Christmas; Bassett & Washburn, Chicago, 2nd with Belle Washburn.

Crimson—S. J. Goddard, Framingham, Mass., 1st with Doris; W. D. Howard, Milford, Mass., 2nd with Bernice.

Yellow—F. Dorner & Sons Co., 1st with Old Gold.

White Variegated—Halifax Gardens, Halifax, Mass., 1st.

SECTION B.

VASES OF 50 BLOOMS.

White Enchantress—1st Hartje & Elder, Indianapolis; 2nd, J. A. Nelson, Framingham, Mass.

White Wonder—1st, W. Frank & Sons, Portland, Ind.; 2nd, C. S. Strout. Matchless—1st, C. S. Strout; 2nd, Gullett & Sons, Lincoln, Ill.

Any Other White—1st, C. S. Strout, with White Winsor.

Enchantress Supreme—1st, Jos. Hill Co., Richmond, Ind.

Pink Delight—1st, C. S. Strout; 2nd, J. A. Nelson.

Any Other Flesh Pink—1st, C. S. Strout with Nancy; 2nd, W. Frank & Sons with May Day.

Pink Sensation—1st, S. J. Goddard; 2nd, Gullett & Son.

Any Other Light Pink—1st, S. J. Goddard with Gloriosa; 2nd, Gullett & Sons with Gloriosa.

Mrs. C. W. Ward—1st, W. Frank & Sons; 2nd, C. S. Strout.

Good Cheer—1st, Baur & Steinkamp; 2nd, Gullett & Son.

Any Other Medium Pink—1st, A. R. Schroeder with Mrs. Akehurst; 2nd, J. S. Stuart & Son, Anderson, Ind., with Rose Pink Enchantress.

Any Dark Pink—1st, Hartje & Elder, Indianapolis, with Washington; 2nd, S. J. Goddard with Rosette.

Beacon—1st, A. R. Schroeder; 2nd, S. J. Goddard.

Any Other Scarlet—1st, Bassett & Washburn with Belle Washburn; 2nd, W. Frank & Sons with Portland Pride. Pocahontas—1st, C. S. Strout.

Benora—1st, Halifax Gardens; 2nd, J. A. Nelson.

Yellow Prince—1st, S. J. Goddard.

SECTION C.

VARIETIES DISSEMINATED, 1915-16, 50 BLOOMS.

Nancy—1st, S. J. Goddard.

Alice Coombs—1st, Halifax Gardens.

Miss Theo—1st, S. J. Goddard.

Silver medal awarded to Baur & Steinkamp for Merry Christmas. Bronze medal to Cottage Gardens Co., for Cottage Maid.

Dorner Memorial Medal won by F. Dorner & Sons with Laddie.

Certificate of Merit to W. D. Howard for Bernice and Nic Zweifel, Milwaukee, for Edna.

Indiana Special Trophy won by W. Frank & Sons.

CHELSEA AND HOLLAND HOUSE SHOWS ABANDONED.

We learn from "The Garden," London, that after careful consideration and great anxiety the Council of the Royal Horticultural Society have decided to abandon these two large shows for this year. Added to the trouble arising from the shortage of labor, the difficulties of transport, and the government's desire to reduce traveling, the contractor has, at the last moment, reported that he cannot guarantee to put up the tents. In the place of these two shows ordinary fortnightly meetings will be held at the London Scottish Drill Hall, Buckingham Gate, on the usual fortnightly dates, namely, May 22 and July 3.

CLUBS AND SOCIETIES

MISSOURI STATE FLORISTS' ASSOCIATION.

The appointments of the vice-presidents of the Missouri State Florists' Association were made last week, and comprise the following:

H. Archias, Sedalia, Mo., two years; Frank A. Windler, St. Louis, Mo., two years; William L. Rock, Kansas City, Mo., one year; Earl Reed, Louisiana, Mo. (Stark Bros.), one year.

This includes a representative of the wholesaler, retailer, grower and the nurserymen of Missouri, and President Knapp is to be congratulated on the selection of such able and progressive material to constitute part of the executive board of the Missouri State Florists' Association.

W. S. WELLS, Secy.

CHRYSANTHEMUM SOCIETY OF AMERICA.

We have received from Secretary Chas. W. Johnson, type-written copy of the preliminary list of Special Prizes to be awarded at the Annual Exhibition in Cleveland, Ohio, November 6-11, 1917. The list includes lots of silver cups and other trophies of very substantial value contributed by public-spirited amateurs and by chrysanthemum specialists in the trade, and there should be some lively competition on that occasion among commercial growers and also among the representatives of private estates.

LADIES' SOCIETY OF AMERICAN FLORISTS.

The address of the secretary of the Ladies' S. A. F. has been changed from Pittsburgh, Pa. and now reads Mrs. Chas. H. Maynard, Point Chautauqua, N. Y.

CLUB AND SOCIETY NOTES.

The Tennessee State Florists' Association has been holding its third annual convention in Nashville, this week. G. M. Bentley of Knoxville is secretary.

At the March meeting of the Retail Florists' Association of St. Louis, the annual election of officers will take place. There are three candidates for president.

There will be an exhibition of Lorraine Begonias, Orchids, Chinese Primroses and Forced Vegetables at Horticultural Hall, Boston, on Saturday, February 3.

The Omaha and Council Bluffs Florists' Club met on January 11 and officers were installed as follows: President, John Bath; vice-president, Lee Harmon; secretary, J. S. Gardner; treasurer, H. Clark.

Nominations for officers will be in order at the next meeting of the Florists' Club of Washington, D. C., to be held on Tuesday evening, February 6, at 1214 F. street, N. W. The election takes place the first Tuesday in March.

The Stamford (Conn.) Horticultural Society, formed a month ago, has al-

Meetings Next Week

Monday, Feb. 5.

Bernardsville Horticultural Society, Horticultural Hall, Bernardsville, N. J.
Elberon Horticultural Society, Fire Hall, Elberon, N. J.
Houston Florists' Club, Chamber of Commerce Rooms, Houston, Tex.
Montreal Gardeners' and Florists' Club, Montreal, Canada.
New Bedford Horticultural Society, New Bedford, Mass.
Washington Florists' Club, Washington, D. C.

Tuesday, Feb. 6.

Florists' and Gardeners' Club of Holyoke and Northampton, Mass.
Lake Geneva Gardeners' and Foremen's Association, Horticultural Hall, Lake Geneva, Wis.
Los Angeles County Horticultural Society, Los Angeles, Cal.
Paterson Floricultural Society, Y. M. C. A. Bldg., Paterson, N. J.
Florists' Club of Philadelphia, Horticultural Hall, Philadelphia, Pa.
Pittsburgh Florists' and Gardeners' Club, Fort Pitt Hotel, Pittsburgh, Pa.

Wednesday, Feb. 7.

Tuxedo Horticultural Society, Tuxedo Park, N. Y.

Thursday, Feb. 8.

Menlo Park Horticultural Society, Menlo Park, Calif.
New London Horticultural Society, Municipal Bldg., New London, Conn.

Friday, Feb. 9.

Connecticut Horticultural Society, County Building, Hartford, Conn.
Westchester and Fairfield Horticultural Society, Doran's Hall, Greenwich, Conn.

Saturday, Feb. 10.

Dobbs Ferry Gardeners' Association, Dobbs Ferry, N. Y.

ready more than 100 members, nearly all of them experienced gardeners and growers, and commercial men in the flower business. There is no doubt, now, of the success of the society in the future and of its plans for two flower shows per year for Stamford.

The advisory council of the Massachusetts Horticultural Society has decided to hold a garden contest each year from 1919 to 1922. In 1919 the contest will be for the best iris garden, in 1920 for the best rose garden, in 1921 for the best lilac garden and in 1922 for the best fruit garden. Commercial growers are excluded from this contest. The prizes are: for first, gold medal and \$100; for second, silver medal and \$50; and for third, silver medal and \$25.

A meeting of the employees of the Pierson greenhouses, Cromwell, Conn., was held Thursday evening, January 25, and a society known as the Cromwell Gardens Horticultural Society was organized. W. R. Pierson and A. N. Pierson were elected honorary presidents and the following list of active officers was elected: President, J. M. McEwen; vice-president, Arvid Anderson; secretary and treasurer, M. C. Searles; publicity manager, George Anderson.

PUBLICATIONS RECEIVED.

PARKS, THEIR DESIGN, EQUIPMENT AND USE, by George Burnap, B. S. M. A. Landscape Architect of Public Buildings and Grounds, Washington, D. C. With an introduction by Richard B. Watrous, Secretary American Civic Association. Frontispiece in color. Large 8 vo, decorated cloth, net, \$6.00. J. B. Lippincott Company, Publishers, Philadelphia.

This is one of the really great books of the season. It cannot be justly reviewed in a casual glance over its pages. One does not have to read very far to realize that its author has spent a busy lifetime on the myriad problems of his many-sided subject and is thoroughly in touch with the public—its needs and its whims. There are four books intended for the series, of which this is the first one issued, the subjects and their order as originally planned being Landscape Design, Planting Design, Park Design and Garden Design. The manuscript of the first, we are told, is interned with the author's trunk somewhere on the border between Germany and France.

In the book under consideration there are 163 pictorial illustrations, of which 92 are taken from foreign parks. These pictures are mostly views of restricted areas, small squares, etc., which at first glance were thus somewhat a disappointment until we found that they were presented not particularly as examples of the author's ideals but in a great many instances as exhibits of what should not be done, the foreign ones figuring largely in the category of defective arrangement. The volume contains fifteen chapters under topics as follows: Park Design in City Planning; Bringing Up a Park the Way It Should Go; Principles of Park Design; "Passing-Through" Parks; Neighborhood Parks; Recreation Parks; Playgrounds in Parks; Effigies and Monuments in Parks; Architecture in Parks; Decorative Use of Water; Planting Design of Parks; Park Administration in Relation to Planting Design; Seats in Public Parks; Disposition of Flowers in Parks; Park Utilities. From the foregoing it will be seen that the book follows very practical lines. It is addressed primarily to executives having the development of parks in charge, whose knowledge of the underlying principles of the subject is often vague, of necessity. It is plainly set forth in the preface that the book is intended to establish the fact that there is a definite law and order to be recognized in the shaping of parks quite as in other forms of art-laws which may not be prudently violated or ignored.

Chapter 1 should be read very carefully. Chapter 2 will elicit a cordial "Amen" for the greater part of its contents. The playgrounds chapter is one of the best and presents principles of intrinsic worth as regards this difficult department of park work. Invariably outspoken, the author leaves no doubt as to his position on disputed questions. His remarks on the use of statues and decorative sculpture will please most readers, as will the unstinted condemnation of tree and shrub mutilation by the use of the clipping shears, but not all will agree that

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the gardener, as such, is the typical offender in this regard. The chapter on Recreation Parks is inspiring and delightful from first to last. It will benefit and instruct all who read it and those with true artistic perceptions will find themselves very much in harmony with the author's utterances. Park Utilities makes a splendid chapter, full of well-considered advice. That on Disposition of Flowers in Parks seems to us hardly up to the quality of the others in comprehensiveness and practical suggestion, and we think sylvan beauty would stand a little larger recognition.

As intimated above, the old controversy concerning the respective qualifications and failings of "architects"

and "gardeners" intrudes here and there in this work. The author remarks that "It is an absurdity to permit the park gardener to destroy uncensured the soft values of a foliage composition which the landscape designer visualized and hoped to produce." To this proposition all reasonable people will no doubt subscribe, but not necessarily to the presumption that this species of butchery is an inseparable predilection of park gardeners or that refined landscape composition is exclusively a product of academic training in landscape architecture. It is a mistake to assume that for the interweaving of beauty and utility which is essential in every garden conception academic training in the aesthetic arts is indispensable and that intuition is comparatively a minor factor. There are landscape architects and landscape architects and there are gardeners and gardeners, and each in the final analysis must stand or fall, not upon the title he assumes but according to his works. To each and all, however, the possession of "Parks, Their Design, Equipment and Use," will be found a substantial help in his progress to a position of eminence in his chosen profession. To any young man wishing to engage in landscape art as a life work we unhesitatingly commend Mr. Burnap's book as a manual of exceptional value and an unsurpassed aid. The book can be supplied by HORTICULTURE at publisher's price.

OBITUARY.

Mrs. John Condon

Mrs. Ellen Lucy Condon, wife of John Condon, florist, died on January 23 at her home in Brooklyn, N. Y.

George Zeiner.

George Zeiner, florist of Wantagh, N. Y., and formerly in business in Flatbush, Brooklyn, died last week, aged 73 years.

Portland, Me.—Schay's Greenhouse has gone out of business.



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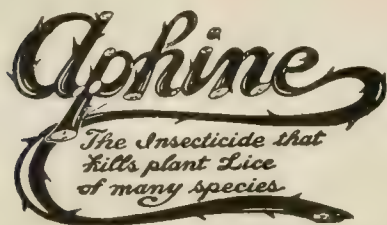
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During Recess

The Morristown Dinner.

On Tuesday, January 23, the Morris
Co., (N. J.) Horticultural Society be-
came of age, and it celebrated the
twenty-first anniversary of its forma-
tion in a befitting manner. And a feast
it was! From the time Landlord Piper
made the clock strike seven until the
midnight chimes which were heard
from around the corner acted as a cur-
few and bade all the jolly good fellows,
who were not a bit sleepy, a fond good
night.

The dinner was a sumptuous one
and the decorations were so lavish as
to give the hall the semblance of a
flower show more than a banquet. At
the speakers' table over which the
toastmaster, Richard G. Hollaman pre-
sided, sat Edward Reagan, secretary of
the society; William H. Duckham
treasurer; Frank Breare, president;
Britton D. Evans, Hon. Daniel S. Voor-
hees and Hon. George W. Downs. Af-
ter the first courses amateur enter-
tainers, who are members of the so-
ciety, sang several popular songs and
amused with an eccentric dago dance.

The toastmaster took for his subject
in the opening address, "What I Know
of the Cannibal or Insect Eating
Plant." This speech was to consume
an hour and half of time, but as the
speaker said, he was covered with con-
fusion and blushed to admit that he
had come away from his home with-
out it. He said in part that at the
original organization meeting of the
association eight men who were in-
terested in their professions attended
and that there are four here tonight,
Messrs. Reagan, Herrington, Totty
and Duckham, and that they all should
feel proud of their accomplishments,
and of their success as fathers of the
society, for today the active member-
ship is over one hundred.

Arthur Herrington, who was the as-
sociation's first president, was next
called upon, and while he did not ad-
mit it, it was rumored that the an-
niversary punch which had just been
served was his own "seedling." Mr.
Herrington said he had long looked
forward to this night, for this was the
night that his infant, the society, had
become of age. He then jokingly spoke
of some of the reminiscences of the
society in its early days, and of the
advancement of horticulture in New
Jersey. One man advised him not to
publish a paper he had prepared, for
by so doing he was giving to the public
the secrets of his profession. But the
paper was published, and tonight's
events speak for themselves, and the
man who was afraid of giving the
secret to the public is unheard of in
his profession.

Mayor Otto Ross was next called
upon and for the first time gave away
his secret to the public, admitting that
he was a gardener, as well as a mayor,
and should anyone doubt his integrity
they might call at his residence any
time next summer and see his garden
which occupies a plot two by four feet.

Dr. Britton D. Evans paid a great
tribute to the florists for the part they

If You Guess

The Cost of Spraying

your orchard, it is impossible to
show you that "SCALECIDE"
is cheaper than Lime-Sulfur.

If You Know

we can prove to you conclusively
(no matter how large or small) that
"SCALECIDE" is not only cheaper
and easier to apply, but is more ef-
fective in controlling Scale, Pear
Psylla, Leaf Roller, Bud Moth, Case-
bearer; also fungus, such as Canker
and Collar Rot that no other spray
will control.

Write us the number and age of your trees; the
number of gallons and cost of Lime-Sulfur you
use and the cost of labor to apply it, and we will
tell you what it will cost to use "SCALECIDE."
Number 13 Booklet free. Address Dept. 12,

B. G. PRATT CO.

Manufacturing Chemists

50 Church Street, New York City

USE WIZARD BRAND

TRADE MARK

CONCENTRATED PULVERIZED MANURE

Pulverized or Shredded CATTLE
MANURE

Pulverized SHEEP MANURE

The Florists' standard of uni-
form high quality for over
ten years. Specify **WIZARD
BRAND** in your Supply House
order or write us direct for
prices and freight rates.

The Pulverized Manure Co.
No. 31 Union Stock Yards
CHICAGO

take in furnishing something that adds
to the beauty of the world, and brings
joy to the distressed. He said that
he was thinking of the things which
make life beautiful and expressed the
thought that a few roses meant more
to the living than whole wreaths to
the dead. He added that while he is
not a florist he is supposed to throw
flowers in the human pathway.

J. Austin Shaw, replied with a poem
and a toast to the press and the (ab-
sent) ladies. Charles Weathered, one
of the oldest members of the New
York Florists' Club, was then caught
as he was about to leave the room, and
was prevailed upon to tell several
stories and give the history of his or-
ganization.

Edward Reagan next spoke on "The
Individual Member" and said that
while the organization has attained a
place second to none in the trade, as
well as in the national shows, that
the work while in many cases attri-
buted to an association was in many
cases, due to an individual. And here
he made a presentation speech and
presented William H. Duckham with
a diamond stick pin, composed of a
cluster set in platinum, as an expres-
sion of the estimation in which he is

held by the members of the organization. Mr. Duckham was greatly surprised, and for a few moments was so touched that he could not collect himself. He then thanked the organization for their beautiful gift.

Uncle Dan Voorhees, who is known as a Republican leader in the county, and claims that he has never made a speech in his life, spoke for a few moments to the members. He said that he was now sixty-five years old and this was the second florist banquet that he had attended, and that from now on he would attend the next twenty-five. He was followed by Arthur T. Boddington, Mayor W. G. Badgley of Chatham and Hon. George W. Downs.

New York Club Dinner.

It is rumored that the New York Florists' Club will give another "Din-Dan" or dinner dance at the Biltmore, on Saturday night, March 17th; which is the first Saturday of the Flower Show—also St. Patrick's Day.

In addition to a dinner of rare goodness, with the happy accompaniment of dancing, there will be a mystery. Chairman A. I. Miller says that it's going to be "A Big Joy Bubble," which will be burst in the centre of the room at exactly 12 of the clock." Further than that, Abe is dumb as an oyster. The committee urge an early reservation of tables. Tickets for lady or gentleman, will be \$5 each. Write to The Dinner Committee, A. L. Miller, chairman, T. B. de Forest, secretary, 30 East 42nd street, New York, N. Y.

Essex County (N. J.) Florists' Club

This club will have a Ladies' Night at the Krueger Auditorium on the evening of Thursday, February 22. Jas. J. McLaughlin is chairman of the committee.

Boston Florists' Bowling Teams.

The standing as to games won and lost up to date is as follows:

Galvin	35	9
McAlpine & McD.	34	10
Waban	27	17
Flower Market	26	18
Flower Exchange	24	20
Carbone	22	22
New England	18	26
Robinson	17	27
Penn	9	35
Snyder	8	36

Av.—J. Guerin, 100; E. Harrington, 97; J. Connelly, 93; J. Dowd, 93; A. Pierce, 93; J. Guerin, 93; W. Nicholson, 92; R. Mitchell, 92; J. Bresnahan, 91; J. McDonough, 90.

Florists' Club of North Chicago.

Jan. 11, 1917, scores.

J. Huebner	176	158	205
F. Price	184	170	183
A. Zech	188	198	178
J. Einwich	139	180	180
P. Olsem	186	176	166

Jan. 23, 1917, scores.

J. Huebner	174	181	146
W. Lorman	170	183	171
J. Einwich	193	161	168
A. Zech	190	198	179
P. Olsem	178	188	174

Washington, D. C.

The duckpin team representing The Florists' Club of Washington, D. C.,

BOLGIANO'S TOMATO SEEDS

Are grown by us as far
north as Tomatoes
will mature.

They are Free from Blight—
Most Carefully Grown—Most
Carefully Selected—Most
Carefully Saved

JUST FOR SEED

Bolgiano's Tomato Seeds are
well known for their big yields
of large, firm, solid, meaty uni-
form Tomatoes.

We grow Tomatoes—just for
seed, even the pulp we destroy.
Not an ounce of Canning House
Tomato Seed is allowed to
enter our Establishment.



"JOHN BAER" TOMATO

WHOLESALE TOMATO SEED PRICES (To the Trade Only)

	Oz.	¼ lb.	½ lb.	Lb.
"JOHN BAER" TOMATO SEED	\$0.75	\$2.00	\$3.75	\$7.50
"GREATER BALTIMORE" TOMATO SEED	.25	.75	1.25	2.50
"GREATER BALTIMORE" TOMATO (Special Stock Seed)	.30	1.00	1.75	3.50
MY MARYLAND TOMATO SEED	.25	.75	1.25	2.50
MY MARYLAND TOMATO (Special Stock Seed)	.30	1.00	1.75	3.50
THE GREAT B B BOLGIANO'S BEST	.20	.50	.90	1.75
RED ROCK EXTRA FINE STOCK	.20	.50	.90	1.75
RED ROCK (Special Stock Seed)	.25	.75	1.25	2.50
BURPEE'S MATCHLESS TOMATO	.20	.50	.90	1.75
LIVINGSTON'S PERFECTION TOMATO	.15	.40	.75	1.50
BRINTON'S BEST TOMATO SEED	.15	.40	.75	1.50
WORLD'S FAIR TOMATO SEED	.15	.40	.75	1.50
BOLGIANO'S NEW CENTURY TOMATO	.15	.40	.75	1.50
BOLGIANO'S NEW QUEEN TOMATO	.15	.40	.75	1.50
DWARF STONE TOMATO SEED	.15	.40	.75	1.50
I. X. L. BOLGIANO'S EXTRA EARLY	.25	.85	1.50	3.00
BONNY BEST (Purest Stock)	.25	.75	1.15	2.25
LIVINGSTON'S NEW STONE (Pure)	.20	.50	.90	1.75
LIVINGSTON'S NEW STONE (Special Stock Seed)	.25	.75	1.25	2.50
LIVINGSTON'S PARAGON TOMATO	.20	.50	.90	1.75
MAULE'S SUCCESS TOMATO SEED	.20	.50	.90	1.75
KELLY RED OR WADE TOMATO SEED	.25	.75	1.15	2.25
LIVINGSTON'S FAVORITE TOMATO	.20	.50	.90	1.75
KING OF THE EARLIEST TOMATO	.25	.60	1.00	2.00
SPARK'S EARLIANA TOMATO	.20	.50	.90	1.75
CHALK'S JEWEL TOMATO (Pure)	.25	.60	1.00	2.00
TEN TON TOMATO	.15	.40	.75	1.50
NEW JERSEY RED TOMATO	.15	.40	.75	1.50
TROPHY TOMATO SEED	.15	.40	.75	1.50

TOMATO SEED FOR YOUR 1917 CROP

You will get an enormous crop of Tomatoes from Bolgiano's Tomato Seeds this year. Our Seed was saved from one of the largest crops we have ever had, due to being favored by weather conditions. The vines were loaded with Large, Solid, Red Fruit. We know positively by planting Seed from this "Big Crop" your yield will be much larger than if you had bought seed grown where the weather conditions were not favorable.

J. BOLGIANO & SON, BALTIMORE, MD.

GROWERS OF PEDIGREE TOMATO SEEDS

THIS IS OUR 99TH YEAR

Send for our Complete Catalogue giving lowest prices to Florists and Market Gardeners.

failed to make much of a showing in its games with the Pirates, a competitive team.

The score was as follows:

MOUNT PLEASANT DUCKPIN LEAGUE.

Florists.			
Goldman	75	97	87
A. Shaefer	92	77	113
Schoeps	85	75	91
G. Shaefer	81	93	87
Jenkins	75	96	84
Totals	408	438	462
Pirates.			
Totals	482	467	478

PERSONAL.

Ed. Sceery has been re-elected president of the Park Board of Pater-son, N. J.

Walter Fiers, East Orange, N. J., and Miss Helen Crosby were married on January 10.

Miss Dorothy Perkins, daughter of Mr. and Mrs. G. C. Perkins, and E. B. Estabrook, of Germantown, Pa., were married at Newark, N. Y., on January 27.

Augusta, Me.—Frank H. Dudley of Auburn has been appointed State horticulturist. He succeeds Clyde H. Wilkins, of Wilton, resigned.

Tree "patching" cannot



Five typical letters
from hundreds by
satisfied Davey
clients

Mr. Geo. M. Verity, Pres.
The American Rolling
Mill Co., Middletown,
Ohio.

"The work which your
men did on my prem-
ises has every evidence
of being first class in
every respect."

Mr. T. W. Snow, Pres.
T. W. Snow Construc-
tion Co., Chicago, Ill.

"The work which you
did at my place six or
seven years ago is so
satisfactory that I have
not found it necessary
to do anything more.
Every tree you treated,
including the worst
ones, have since that
time made new and
beautiful trees."

Mr. Edward Holbrook,
President, The Gor-
ham Co., New York
City.

"I wish to express the
satisfaction we have had
in your work. The work
has been done in a thor-
ough manner and your
foreman and his assist-
ants are entitled to
great credit."

Mr. Wm. H. Grafflin,
Falcon Manor, Glen-
coe, Baltimore Co., Md.

"The work done at my
place has been done in
a very satisfactory way
and you are fortunate
in having such efficient
and industrious em-
ployees, a refreshing
experience in these days
of carelessness and
shirking."

Mrs. Chas. G. Weld,
Brookline, Mass.

"I am very much
pleased with the result
of your work on my
trees. . . . From their
present appearance I do
not see why they should
not last many years
longer, whereas last
year we had grave
doubts as to their liv-
ing."

A crude cement patch—ineffective and injurious

Cement patch removed—showing extensive and neglected decay

THE tree is a living organism; it breathes, assimilates food, has a real circulation. Its normal condition is **health**, but it is subject to disease and decay just as any other living thing.

As with one's body or one's teeth, the tree responds only to that treat-
ment which is in scientific accordance with Nature's laws.

The physician, the surgeon, or the dentist requires years of patient study, plus the intuitive skill born of ripe experience, before he is equipped to obtain successful results.

This is also exactly true in Tree Surgery. However, in Tree Surgery, scientific accuracy is not enough. Think of the terrific windstorm with its bending and twisting! You will then realize that Tree Surgery must be mechanically perfect to withstand it. The mechanical principles and methods of bracing employed by a real Tree Surgeon would amaze you.

Trees cannot be "patched" like barn doors. Men without long training and experience cannot save them. Tree Surgery is a science unto itself—a science demanding highly specialized knowledge and remarkable skill for its successful application.

Facts Little Understood

Because the facts set forth above have not been understood, great injury has been done to thousands of trees everywhere and a vast amount of money has been wasted in disastrous tree "patching."

It has been the fault of nobody in particular. Tree owners simply have not realized the degree of scientific knowledge and mechanical skill required in the permanent saving of trees. And "tree patchers"—the men who have been doing the faulty and dangerous work—are in many cases conscientious enough but ignorant of the facts and lacking in skill.

Photograph No. 1 illustrates a typical case of tree "patching." To the untrained eye this work probably looks good, but a Davey Tree Surgeon saw at a glance that the conditions were bad. Growths of fungus disease appeared along the edges of the filling and on the bark between the large and small fillings.

Photograph No. 2 shows the filling taken out. Nearly every principle of the science of Tree Surgery had been violated—the rough decay only had been removed; the cavity had not been disinfected; the condition of decay behind this crude cement patch was actually appalling, and the filling had only been in two or three months; no bracing of any kind had been used; no means had been provided to exclude moisture; the large filling had been put in as a solid mass, making no allowance for the sway of the tree.

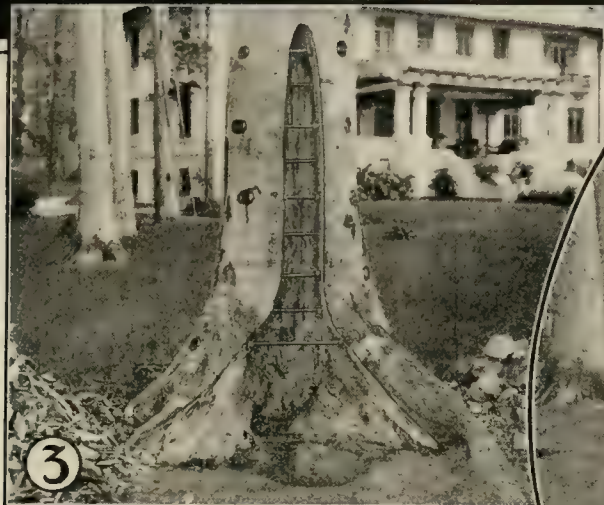
Photograph No. 3 shows all decay removed by a Davey Tree Surgeon; the cavity thoroughly disinfected and waterproofed; the mechanical bracing partly in place; the watersheds cut to exclude moisture.

Photograph No. 4 shows the Davey filling completed, put in sectionally to permit swaying without breaking the filling. This tree has since stood through many severe storms in perfect condition. New bark is now growing over the filling along the edges. The tree has been saved permanently!

Davey Tree

Every real Davey Tree Surgeon is in the employ of the Davey Tree Expert Co. and the public is cautioned against those falsely representing themselves.

save your trees!



All decay removed, cavity disinfected and waterproofed, mechanical bracing installed



Davey Tree Surgery is safe

It is scientifically accurate and mechanically perfect.

Your trees, many of them the product of several generations, are priceless. Once lost, they cannot be restored in your lifetime or that of your children.

To whom shall you entrust them? There can be only one answer, for there is only one *safe* place to go—to Davey Tree Surgeons.

Safe—because Davey Tree Surgery is time-proved; its record of successful performance for thousands of estate owners spans a generation.

Safe—because no Davey Tree Surgeon is allowed any responsibility until he has conclusively demonstrated his fitness. He must have served his full course of thorough practical training and scientific study in the Davey Institute of Tree Surgery—a school, the only one of its kind in the world, which we conduct for the specific purpose of drilling our men according to Davey methods and Davey ideals.

Safe—because we who know values in Tree Surgery and who demand and deliver the

best, select the man to whom the treatment of your priceless trees is to be entrusted.

Safe—because Davey Tree Surgery has been endorsed as *best* by the United States Government after an exhaustive official investigation.

Safe—because Davey Tree Surgery is recommended by thousands of prominent men and women, whose endorsement you can accept with complete confidence. (Several such endorsements appear on the left.)

Safe—because Davey Tree Surgeons are picked men, thoroughly trained, conscientious, intelligent, courteous, in love with their work. "Men," writes Dr. H. D. House, New York State Botanist and formerly pro-

This is Davey Tree Surgery. It is scientifically accurate and mechanically perfect. The sectional filling permits swaying without cracking

fessor in Biltmore Forestry School, "who would do honor to any institution of learning in America."

Safe—because the Davey Company is a successful and responsible house, amply able to make good in every instance, and not needing, for the sake of temporary existence, to sacrifice in the slightest degree its high standards.

Tree "patching" cannot save your trees. Only scientific, mechanically perfect treatment by men trained through years to the point of finished skill can be permanently successful. And for such treatment by such men there is only one *safe* place to go—to Davey Tree Surgeons.

The Davey Tree Expert Co., Inc.

1302 Elm Street, Kent, Ohio

(Operating the Davey Institute of Tree Surgery, Kent Ohio)

Branch Offices: 225 Fifth Ave., New York—2017 Land Title Bldg., Philadelphia—Chicago

Permanent representatives located at Boston, Newport, Lenox, Hartford, Albany, Poughkeepsie, White Plains, Stamford, Jamaica, L. I., Morristown, N. J., Philadelphia, Harrisburg, Baltimore, Washington, Buffalo, Pittsburgh, Cleveland, Detroit, Cincinnati, Louisville, Chicago, Milwaukee, Minneapolis, St. Louis, Kansas City. Canadian address: 81 St. Peter Street, Quebec.

Surgeons

FOR SAFE TREE SURGERY

Write today for FREE Examination of your Trees

—and booklet, "When Your Trees Need the Tree Surgeon."

What is the real condition of your trees? Are insidious diseases and hidden decay slowly undermining their strength? Will the next severe storm claim one or more as its victims? Only the experienced Tree Surgeon can tell you fully and definitely. Without cost or obligation to you, a Davey Tree Surgeon will visit your place, and render an honest verdict regarding their condition and needs. Write today.

MICHELL'S NEW CROP FLOWER SEEDS



ASPARAGUS Plumosus Nanus (Northern Greenhouse Grown).
1,000 seeds...\$3.50 10,000 seeds...\$30.00
5,000 seeds...15.50 25,000 seeds...72.50

ASPARAGUS Hatcheri.
100 seeds...\$0.75 500 seeds...\$3.00
1,000 seeds...\$5.00

LOBELIA. Tr. pkt. Oz.
Crystal Palace Compacta...\$0.30 \$1.25
Crystal Palace Speciosa... .15 .50

PETUNIA.
Michell's Monstrosus... 1.00
California Giants... .50
Grandiflora Fringed... .50
Dwarf Inimitable... .50 1.25

SALVIA. Tr. pkt. Oz.
Scarlet Glow...\$0.50 \$3.00
Bonfire... .40 2.50
Zurich... .50 4.00
King of Carpets... .50 2.50
Splendens... .25 1.25
Ball of Fire... .50 2.50

CENTAUREA. 1000 seeds Oz.
Candidissima...\$0.30 \$2.00
Gymnocarpa... .15 .50

THUNBERGIA.
Mixed Colors... .15 .60

VERBENA.
Michell's Mammoth Fancy.
Tr. pkt. Oz.
Blue...\$0.30 \$1.25
Pink... .30 1.25
Scarlet... .30 1.25
Striped... .30 1.25
White... .30 1.25
Mixed... .30 1.00

VINCA.
Alba... .15 .60
Alba Pura... .15 .60
Rosea... .15 .60
Mixed... .15 .50

ALSO ALL OTHER SEASONABLE SEEDS, BULBS AND SUPPLIES FOR THE FLORIST. SEND FOR WHOLESALE CATALOGUE.

HENRY F. MICHELL CO., 518 Market Street, Phila

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Kirby B. White, Detroit Mich.; First Vice-President, F. W. Bolgiano, Washington, D. C.; Second Vice-President, L. L. Olds, Madison, Wis.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.

One Week's Imports.

Imports at the port of New York, of horticultural material, for the week ending January 19, were recorded as follows:

Bulbs—Belgium, \$949; France, \$73; Netherlands, \$10,622; England, \$279; Japan, \$3,092.

Plants—France, \$460; Netherlands, \$1,841; England, \$147.

Red clover seed—France, \$8,591.

Clover seed—France, \$10,291; Canada, \$7,228.

Grass seed—Denmark, \$14,336; Canada, \$832.

Other seeds—Denmark, \$1,471; France, \$25,182; Italy, \$444; Netherlands, \$2,166; England, \$20,561; Bermuda, \$66; Trinidad, \$19; Japan, \$5,448; Morocco, \$7,845; Hongkong, \$130.

Nitrate of soda—Chile, \$150,201.

Other fertilizers—England, \$700; Argentine, \$567; Japan, \$2,592.

Chicago Seed Trade Notes.

Robt. Newcomb and A. Miller are representing the American Bulb Co. at Indianapolis.

PIN MONEY MUSHROOM SPAWN

8 lb. for \$1.00

Directions Included

WM. ELLIOTT & SONS
42 Vesey St., New York



SEEDS for the FLORIST

ASTERS QUEEN of the MARKET.

The best extra early variety, large, double flowers, on long stems, in colors: Crimson, Dark Blue, Light Blue, Rose Peach Blossom, White.

Trade Packet, 20c., Oz., 75c.

Sweet Peas, Cyclamen, Primulas, Lily of the Valley, from Our Own Cold Storage Plant.

Our Trade List Mailed on Application.

FOTTLER, FISKE, RAWSON CO., THE SEED STORE BOSTON
Faneuil Hall Square

"Seeds with a Lineage" All Varieties
Thoroughly tested at our trial grounds, Raynes Park, London, England. Send for Catalogue
CARTERS TESTED SEEDS, Inc., 166 Chamber of Commerce Bldg., Boston, Mass.

At this time of the year the Holland bulb salesmen are in Chicago as thick as bees in the clover. This week an unusual number are working the trade here.

The A. Henderson Co. is now very busy shipping out cannas and gladiolus bulbs for forcing. The stock is fine. Mr. Henderson, whose automobile was stolen, recovered it the following day.

Seedsmen report King Humbert canna as the leader in public favor in Chicago. Prices are stiffening on the gladiolus trio that are as popular as ever this season—America, Francis King and Augusta. Seed stock is coming along slowly but surely and dealers are preparing for a good season ahead.

The Leonard Seed Co. is sending out its annual seed catalogue now. This firm is known as Market Gardeners' Seedsmen and makes a specialty of catering to that trade. Three large stores are located in Chicago, the largest at 810 West Randolph street, one on the Northwest side at 4845 Milwaukee avenue and one on the extreme South side, 10912 Michigan avenue.

Miss Louisa Brown is perhaps the most capable and practical seedswoman in the American seed trade today. For thirty years she has held the responsible position of manager of the Leonard Seed Co.'s store, in the

center of the largest vegetable market known as Haymarket Square. With a natural aptitude for the work all these years of experience has equipped her with an understanding of the seed business attained by few.

Notes.

Blockade restrictions on importation of clover seed into Norway are abolished.

J. A. Melady, lately with Carter's Tested Seeds, Boston, has accepted a position in the vegetable seed department of Weeber & Don, New York.

Washington, D. C.—The C. B. & Q. R. Co., has been ordered to refund to the Sioux City Seed & Nursery Co., of Sioux City, Iowa, the sum of \$363.68, being an overcharge on three cars of clover seed from Cowley and Lovell, Wyo., and Silesia, Mont., to Sioux City, in December, 1915.

SEEDS, BULBS, PLANTS

AND

Florists' Necessities

AMERICAN BULB CO.

172 N. Wabash Ave., Chicago, Ill.

Dwarf Gladiolus

Ramosus Ne Plus Ultra, \$6.00 per 1000.

DWARF DOUBLE PEARL TUBE-ROSES. Special prices on application.

CALADIUM ESCULENTUM BULBS.

LILIUM MULTIFLORUM, 7 to 9, 9 to 10 and 10 to 11. Attractive prices on application.

LILIUM FORMOSUM, 7 to 9, 9 to 10 and 10 to 11. (Black stem.)

Please tell us how many you can use and we shall make prices accordingly.

Selected strains of Ageratum, Alysum, Aster, Begonia Erfordi, Calendula Meteor, Prince of Orange, Candytuft, Celosia, Centaurea, Cobaea scandens, Cosmos, Gypsophila, Lobelia, Petunia, and Verbena. Special prices on the above on application.

J. M. THORBURN & CO.

53 Barclay Street
NEW YORK CITY

KELWAY & SON

SPECIALIZE IN

SEEDS

(personally selected strains)

WHOLESALE ONLY

Write for Special Prices, Spot or Forward

Only Address, LANGPORT, Eng

J. BOLGIANO & SON

Careful Seed Growers For
99 Years

Send for Our 1917 Wholesale Prices
To Florists and Market Gardeners
BALTIMORE, MD.

KEYSTONE SNAPDRAGON

Best Winter Flowering Pink Snapdragon on the market. Per pkt., \$1.00; 6 pkts. for \$5.00.

S. S. SKIDELSKY & CO.
PHILADELPHIA, PA.

My new Price List of
WINTER-ORCHID-FLOWERING SWEET PEA SEED

Has been mailed. If you have not received a copy, send me postal. Part of new crop will be ready early in July.

ANT. C. ZVOLANEK

Sweet Pea Ranch Lompoc, Cal.

GENUINE BALCH'S FILLBASKET

TOMATO SEED

Greenhouse Grown from selected plants
Packet, \$1.00; 6 packets, \$5.00

WILLEY'S FARM

EAST PATCHOGUE, LONG ISLAND, N. Y.

READY NOW Buddleia Farquharii

This new Winter-flowering Lilac was raised in our nurseries and is the first authentic hybrid in the genus. The flowers are pale pink, delightfully fragrant and are borne in long, cylindrical, tail-like clusters. It is of easy culture, flowers during December and January and is valuable for conservatory and house decoration and as a cut-flower.

Each, \$1.00; doz., \$10.00; per 100, \$75.00

Wholesale Prices on Application

R. & J. FARQUHAR & CO., Boston, Mass.

LEONARD'S SEEDS

and SEED SERVICE

FOR SALE BY

LEONARD SEED COMPANY, Chicago, Ill.

LILIUM GIGANTEUM

NEW CROP NOW READY.

	Per 100	Per 1000
7 to 9 in. (300 bulbs to case)...	\$5.50	\$50.00
8 to 9 in. (250 bulbs to case)...	7.00	65.00
8 to 10 in. (225 bulbs to case)...	9.00	80.00
9 to 10 in. (200 bulbs to case)...	10.00	95.00

A. HENDERSON & CO.

211 N. State St., Chicago.

Burpee's Seeds PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT.

THOMAS J. GREY COMPANY

SEEDS, BULBS AND IMPLEMENTS
WHOLESALE AND RETAIL.
Reselected Strains in Seeds.
Improved styles in Implements.
Catalogue upon application.

16 So. Market Street
BOSTON, MASS

BURNETT BROTHERS

Importers and Growers of

SEEDS, BULBS, PLANTS, &c.

98 Chambers Street, New York

ROMAN J. IRWIN

108 West 28th St., NEW YORK

SPECIAL OFFER

LILIUM FORMOSUM

8/11, 225 to a case.....	\$80.00 per 1000
9/10, 200 to a case.....	85.00 per 1000
11/13, 100 to a case.....	15.00 per case
LILIUM FORMOSUM—Black Stem	
8/10, 200 to a case.....	\$80.00 per 1000
9/10, 180 to a case.....	90.00 per 1000
11/13, 100 to a case.....	16.00 per case

Write for Complete Stock Circular.
SATISFACTION GUARANTEED.

LILIUM FORMOSUM

LILIUM HARRISII

LILIUM GIGANTEUM

Prices on Application. Write for 1916
Bulb Catalog.

JOSEPH BRECK & SONS' CORP.
47-54 North Market St., Boston, Mass.

W. E. MARSHALL & CO. SEEDS, PLANTS AND BULBS Horticultural Sundries

166 W. 23rd St., NEW YORK

GARDEN SEED

BET, CARROT, PARSNIP, RADISH and
GARDEN PEA SEED in variety; also other
items of the short crop of this past season,
as well as a full line of Garden Seeds, will
be quoted you upon application to

S. D. WOODRUFF & SONS
82 Day St., NEW YORK and ORANGE, CONN.

ALEX. McCONNELL

611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

*Cost of Cabling Foreign Deliveries
Must be prepaid*

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.

Penn.
The Florist

["The Telegraph Florist"]

Member of Florists' Telegraph Delivery

124 TREMONT ST.
BOSTON

FOR

KANSAS CITY

Transfer Your Orders to

SAMUEL MURRAY

1017 Grand Avenue

Members Florists' Telegraph Delivery

Orders for NEW YORK.
Write or Phone to

MAX SCHLING

22 West 59th St.
Adjoining Plaza Hotel

Best Florists in the States as
References.

EUROPEAN ORDERS EXECUTED

Members of the Florists'
Telegraph Delivery.

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address. Dardsflor.

DAVID CLARKE'S SONS

Deliver orders from any part of the country to
New York City

Or OUT-GOING STEAMERS

Write or Telegraph

2139-2141 Broadway, - New York
Telephone 1552-1553 Columbus

Of Interest to Retail Florists

NEW FLOWER STORES.

Brockton, Mass.—Miss Clarissa A. Fuller.

Chicago—Joseph Ziska & Sons, Du-rand Bldg.

Cleveland, O.—Schoen Floral Co., 1268 Euclid Avenue.

New York City—Warendorff, Broad-way and 86th street.

Kansas City, Mo.—J. Austin, branch store, 10th and Main street.

Wickliffe, Ky.—Dunn & Shearin suc-ceed Ed. Dunn in the florist business here.

PUBLICITY FOR VALENTINE'S DAY.

The Publicity Committee of the Chicago Florists' Club reports that they have sold to date (Jan. 30) 260, 880 valentine stamps, and 7,000 valentine posters, total sales \$1,250.00. They give the following few interesting items:

Cleveland Florists' Club purchased 10,000 stamps and 500 posters; the florists of Canton, Ohio, combined their purchases in one order; the florists of Richmond, Indiana, purchased 3,600 stamps and 150 posters; the florists of Buffalo purchased as a body, ordering 10,000 stamps; Dudley & Sons, of Parkers-burg, Va., ordered 5,000 stamps; the florists of Louisville, Ky., ordered 10,000 stamps; about 10,000 stamps were sold to florists on the Pacific Coast; St. Louis Wholesale Cut Flower Co. placed order for 25,000 stamps; many orders were received from Texas; Rochester, N. Y., ordered about 7,000; numerous orders were received from New York City. The records show purchases by the best retail florists of the largest cities in this country.

The committee states that they are still in position to make immediate delivery on orders of any size. Orders will be filled same day received. Hurry up!

The committee was represented at the Carnation Show at Indianapolis with a supply of stamps and posters.

The Directory of Members of the Florists' Telegraph Delivery Association just sent out from Secretary Pochelon's office is a very useful publication. Names and full addresses are given of nearly 400 members in all parts of the country, also names of officers and district representatives and addresses of 81 subscribers to the public-ity fund which now amounts to \$1,686.00. Since the last report new members have been added from Louis-iana, California, Pennsylvania and Oklahoma.

G. E. M. STUMPP
761 Fifth Ave.

NEW YORK CITY

Member Florists' Telegraph Delivery Asso.

**JOHN BREITMEYER'S
SONS**

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.



GUIDE BROS. CO.
WASHINGTON, D. C.

Member Florists Telegraph Delivery

IN THE

National Capital

At your service to deliver Flowers or Designs on Order by Tele-graph or otherwise. Prompt Reliable Service.

GEORGE H. COOKE

Connecticut Ave. and L St.
WASHINGTON, D. C.

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY AND VICINITY

Members Florists' Telegraph Delivery

Rochester, N. Y.

**J. B. KELLER SONS,
FLORISTS**

25 Clinton Avenue, N.

Rochester Phone 506. Long Dist. Bell Phone 2780
Members Florists Telegraph Delivery

YOUNG & NUGENT

42 West 28 Street
New York

Members Florists' Telegraph Delivery

A. T. BUNYARD
NEW YORK

413 Madison Avenue at 48th Street.
Also Newport, R. I.

We Guarantee Satisfaction
MEMBER F. T. D. A.

CHICAGO Send Your Orders to WILLIAM J. SMYTH

Member Florists' Telegraph
Delivery Association

Michigan Ave. at 31st Street

Prompt Auto Delivery
Service

THOS. F. GALVIN
INC.
NEW YORK 561 Fifth Ave.
Vanderbilt Hotel
BOSTON 1 Park Street
799 Boylston Street
Deliveries to Steamers and all Eastern Ports

CLEVELAND

A. GRAHAM & SON
5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

WASHINGTON

915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to
any address in Washington.
Stock and Work First Class

Orders Filled Day or Night for
CLEVELAND
and State of Ohio

Complete Stock. Regular discount to Trade.
KNOBLE BROS.
1896 W. 25th St., Cleveland, O.
Members Florists' Telegraph Delivery Ass'n.

THE SMITH & FETTERS CO.
735 Euclid Avenue
CLEVELAND, OHIO
Flowers of Every Kind in Season

HESS & SWOBODA

FLORISTS
Telephones 1501 and L 1532.
1415 Farnum St.,
OMAHA, NEB.

S. A. ANDERSON

440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
Stock and prompt deliveries in BUFFALO,
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK
Members of Florists' Telegraph Delivery.

HIGH GRADE PLANTS

For Retail Stores a Specialty

ASK FOR LIST

THOMAS ROLAND, Nahant, Mass.

WORCESTER, MASS.

Randall's Flower Shop
HARRY L. RANDALL, Proprietor.
Mention Florists' Telegraph Association

Flowers by Telegraph

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

Albany, N. Y.—F. A. Danker, 40 Maiden
Lane.

Albany, N. Y.—H. G. Eyres, 108 State
St.

Albany, N. Y.—The Rosery, 23 Steuben
St.

Albany, N. Y.—William C. Gloeckner, 97
State St.

Boston—Thos. F. Galvin, 1 Park St.

Boston—Penn the Florist, 124 Tremont
St.

Buffalo, N. Y.—S. A. Anderson, 440 Main
St.

Buffalo, N. Y.—Palmer's, 304 Main St.

Chicago—William J. Smyth, Michigan
Ave. and 31st St.

Cleveland, O.—J. M. Gasser Co., Euclid
Ave.

Cleveland, O.—Adam Graham & Sons,
5523 Euclid Ave.

Cleveland, O.—Knoble Bros., 1836 W. 25th
St.

Cleveland, O.—The Smith & Feters Co.,
735 Euclid Ave.

Denver, Col.—Park Floral Co., 1643
Broadway.

Detroit, Mich.—J. Breitmeyer's Sons,
corner Broadway and Gratiot Ave.

Houston, Tex.—Kerr, The Florist.

Kansas City, Mo.—Samuel Murray, 1017
Grand Ave.

Los Angeles, Calif.—Howard & Smith,
853 So. Olive St.

New London, Conn.—Reuter's.

New York—J. H. Small & Sons, 505 Mad-
ison Ave., at 52d St.

New York—David Clarke's Sons, 2139-
2141 Broadway.

New York—Alex. McConnell, 611 5th Ave.

New York—Young & Nugent, 42 W. 28th.

New York—A. T. Bunyard, 413 Madison
Ave., at 48th St.

New York—Dards, N. E. corner 44th St.
and Madison Ave.

New York—Max Schling, 22 W. 59th St.

New York—G. E. M. Stumpp, 761 Fifth
Ave.

New York—Thos. F. Galvin, Fifth Ave.,
at 46th St.

Norwich, Conn.—Reuter's.

Omaha, Neb.—Hess & Swoboda, 1415
Farnum St.

Passaic, N. J.—Edward Seery.

Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave., N.

St. Louis, Mo.—Fred C. Weber, 4326-28
Olive St.

St. Paul, Minn.—Holm & Olson, Inc.

Tarrytown-on-Hudson, N. Y.—F. R. Pier-
son Co.

Toronto, Can.—J. H. Dunlop, 8-10 West
Adelaide St.

Washington, D. C.—Gude Bros., 1214 F
St.

Washington, D. C.—F. H. Kramer, 915
F St., N. W.

Washington, D. C.—George H. Cooke,
Connecticut Ave. and L St.

Westerly, R. I.—Reuter's.

Worcester, Mass.—Randall's Flower Shop,
3 Pleasant St.

Send Telegraph, Telephone or Mail orders
for florist service in this vicinity to

Howard & Smith
853 SO. OLIVE ST.
Los Angeles, Calif.

Every Order sure to receive
prompt and careful attention.

REUTER'S Members Florists' Telegraph Delivery

STORES IN

New London and Norwich, Conn.
and Westerly, R. I.

We cover the territory between

New Haven and Providence

ST. LOUIS, MO.

FRED C. WEBER
4326-28 Olive St.

Member Florists' Telegraph Delivery Association
NOTICE INITIALS. We have one store only

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

The Far-Famed Flowers of
TORONTO

Delivered on mail or telegram order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP
8-10 West Adelaide St. - TORONTO, ONT.

ALBANY, N. Y.

EYRES
Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

106 STATE STREET, ALBANY, N. Y.

"THE HOME OF FLOWERS"

The largest cut flower store in America.
Orders for the TWIN CITIES and for all
Northwestern points given prompt at-
tention

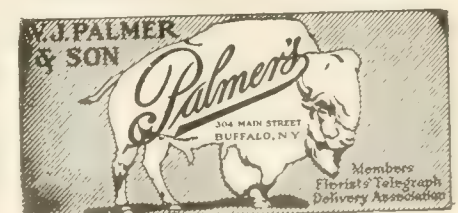
HOLM & OLSON, Incorporated
ST. PAUL, MINN.

The Park Floral Co.

J. A. VALENTINE, Pres.

Members Florists' Telegraph Delivery.

DENVER, COLORADO



KERR ORDERS FOR TEXAS
HOUSTON, TEXAS
Member F. T. D. Association
The Florist

—THE— BEECHWOOD HEIGHTS NURSERIES BOUND BROOK, N. J.

THOMAS YOUNG, JR., Proprietor

Have opened a Salesroom at 57 West 28th Street, N. Y. for the
sale of their Flowers—

GARDENIAS ORCHIDS ROSES

On account of the superior express service from New York City, out of
town customers are requested to send their orders there instead
of to the greenhouses

TELEPHONE 1021 MADISON SQUARE

NEWS ITEMS FROM EVERYWHERE

CHICAGO.

E. C. Amling Co. are now in their new store at 171 N. Wabash, across the street from their old location.

Frank and Joe Pasternick have the sympathy of the trade in the death of their father which occurred Jan. 27th.

The many friends of W. H. Amling, president of the Chicago Florists' Club, are pleased to know that he is rapidly regaining his health.

A. W. Herre, traveling the west central states for the Poehlmann Bros. Co., will be at Indianapolis this week. He reports business in florists' supplies as extremely good.

To date \$15,000 worth of posters to advertise Valentine's Day have been sold. This means something like 300,000 and a great impetus to that day's business may be expected.

L. A. Budlong Co. is building another group of four houses, 600 ft. long, duplicating the range built last year. Another 250-horse power steam boiler is being installed by Kroeschell Bros., who also furnished the other one.

Kroeschell Bros. Co. are having an unprecedented winter demand for their boilers, business being more like that of July and August. Manager Fred. Lautenschlager is representing the firm at the meeting in Indianapolis this week.

Harry Balsley has been spending the week here calling upon old friends in the trade. Since he discontinued the manufacture of flower pots, Mr. Balsley has been looking about for something new and it is reported that a good offer have been made him to take up the manufacturing of flower pots again in Terre Haute, Ind., where there is the necessary clay and a substantial backing.

A new wholesale house will open about Feb. 10th at 173 N. Wabash avenue. The name of the firm is Wiltgen & Freres and though the proprietors are both young men they start with considerable experience. Joseph E. Wiltgen is the son of a well-known grower of Evanston and has been brought up in the business. Michael J. Freres has spent 14 years in the wholesale flower market and for the past three years has been with Zech & Mann.

In the comments on the carnation heard in the market some pertinent facts have been brought to light. One who has an enviable reputation of many years standing, has given up growing the carnation because he found it more profitable to grow roses. When asked why he did not advance the price of carnations correspondingly, he replied that it could not be done because the life of a rose when cut averaged three times that of a carna-

tion, and buyers of flowers have learned to discriminate.

PHILADELPHIA.

The American Rose Society had a very interesting committee meeting on the 25th, well attended, and many important matters were discussed in detail in regard to the National Rose Festival to be held in the First Regiment Armory, Broad and Callowhill streets for four days, opening March 20th. The advance prize list is now ready and copies can be had on application to the president, Samuel S. Pen-nock, 1614 Ludlow street, Philadelphia.

REED & KELLER

122 West 25th St., New York

Florists' Supplies

We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

Telephone 3860 Madison Square

WOODROW & MARKETOS

WHOLESALE

Plantsmen and Florists

37 and 39 West 28th St., NEW YORK

Do Your Spring Buying Early AND DON'T FORGET

That when you stock up on Bayersdorfer & Co.'s goods you are getting
THE BEST IN THE WORLD

BASKETS For Plants BASKETS For Flowers BASKETS

In Endless Variety, Home Manufacture and
Imported. Everything in Florists' Requisites.

Stock up now and have the goods to show customers. Send for prices and
see how much you can do with a little money when you go straight to
headquarters—**THE FLORISTS' SUPPLY HOUSE OF AMERICA.**

H. BAYERSDORFER & CO.

Manufacturers and
Importers

1129 Arch Street, PHILADELPHIA, PA.

Write for
Catalogue

PITTSBURGH.

Edward J. Bambach, a designer for the E. C. Ludwig Co., has been seriously ill for the past week with pneumonia.

The Ludwig Floral Co. furnished the decorations for the banquet of the Young Men's Republican Tariff Club in celebration of the birthday anniversary of the late President William McKinley. Approximately 2,000 carnations were used.

Fred Burki and William A. Clarke left on Monday evening for the carnation meeting at Indianapolis. On the following evening a party left for the same destination including Edward H. Blind, William Loew and T. H. Malbranc, the latter of Greensburg, Pa.

Frederick L. James, who recently purchased a farm in Penn township is now negotiating for the erection of two large vegetable houses in the early spring. Mr. James is a son of Edward Stetson James, who has charge of the floral department of the Fort Pitt and William Penn Hotels.

Mr. and Mrs. Walter Howard Carney have the sincere sympathy of their friends in the death of their elder son, Hayes Carney, aged twelve years, from pneumonia on January 25. Mr. Carney will be recalled as the former manager of the J. B. Murdoch Co., and who now has a retail business of his own.

WASHINGTON, D. C.

Through an unavoidable error there appeared in a recent issue of HORTICULTURE a statement of the incorporation of the Oehmler Floral Company which was not wholly correct. The officers of this company are Thomas M. Dunbarr, president and treasurer; Gust Wolt, vice-president, and O. A. C. Oehmler, secretary and manager. The business will be conducted at 1329 G street, Northwest, in the store operated for several years by Mr. Oehmler.

Through an oversight we failed to state that the anchor design for the Dewey funeral illustrated in last week's issue was made by George C. Shaffer.

ST. LOUIS.

The annual report of the St. Louis Botanical Garden shows since Sunday openings increased attendance.

On Sunday, January 28th, fire destroyed valuable shrubs at the private greenhouses of Samuel C. Davis. The shrubs were imported and had to be housed in winter. Thirty feet of the greenhouses was destroyed.

On Wednesday, 26 florists left in a special car to attend the carnation meeting at Indianapolis. They will spend Saturday in Chicago and will return to St. Louis, Feb. 5th. In the party were Mr. and Mrs. F. C. Weber, Mr. and Mrs. H. G. Berning, Mr. and Mrs. W. C. Smith, Mr. and Mrs. Frank Galy, Mr. and Mrs. W. A. Rowe, Mr. and Mrs. Joseph Windler, Fred. H. Meinhardt, C. A. Kuehn, Charles Meier, Otto Koenig, Julius Bourdet, C. C. Cerney, W. J. Pilcher, Martin Seeger, F. H. Weber, Richard Gubison, M. H. Krusie, Charles Young, D. S. Geddis, Geo. H. Angermueller. These gentlemen will talk Spring Flower Show and will boost St. Louis, the show city.

Cincinnati—Among florists from this city who are attending the American Carnation Society meeting at Indianapolis, Ind., this week are C. E. Critchell, Mr. and Mrs. J. A. Peterson, R. Witt-erstaetter, Henry Sheppard, E. G. Gillett, Ray Murphy, Otto Hirschfeld, Fred Bachmeier, Wm. Sunderman and Frank Schneider.

BOSTON.

The party which left the South station, Boston, at 2 o'clock, Monday afternoon, en route for the carnation meeting at Indianapolis, consisted of S. J. Goddard, Mr. and Mrs. W. R. Nicholson, William Nicholson, all of Framingham, Mass.; Mr. and Mrs. W. D. Howard, Milford, Mass.; E. Allan Peirce, Waltham, and Chas. S. Strout, Biddeford, Me. They also carried with them exhibits from the Halifax Gardens, S. J. Goddard, Albert Roper estate, Chas. S. Strout and John A. Nelson.

NEWS NOTES.

Kansas City, Mo.—The municipal greenhouses were destroyed by fire on January 16, and a good many bulbs and plants were ruined. Loss about \$3500.

West Hartford, Conn.—The Rose Hill Floral Company has sold its plant and twenty-three acres of land on South Main street, situated on the Newton town line, to Carl A. Carlstrom. Mr. Carlstrom it is expected, will continue the greenhouse business.

Hampden Meadows, R. I.—Fire, which started from some unknown cause, caused damages estimated at \$1,000 at the Hampden Meadows greenhouses, January 19. The blaze started in the boiler house, and when discovered had gained great headway. The building was destroyed.

CYCAS--BASKETS--WAX GOODS

We manufacture these goods right on the premises
We can save you thirty-three cents on every dollar

BOSTON FLORAL SUPPLY CO.

347-357 Cambridge St., Boston, Mass.

GARDENIAS

The Best \$25.00 per 100
Fancy \$20.00 per 100
Firsts \$15.00 per 100

At our prices every Retail Florist can handle them. If you buy 25 at one time we bill them at the 100 rate.

THE LEO NIESSEN CO.

Wholesale Florists

1201-05 Race Street,

PHILADELPHIA, PA.

EDWARD REID WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.

CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

W. A. LEONARD J. M. DEUTSCHER
Bell, Locust 1497 Keystone, Race 1656

Philadelphia Wholesale Florist Exchange

1615 Ranstead St., PHILADELPHIA, Pa.

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$1.55. 30,000...\$8.00. Sample free.
For sale by dealers.

E. G. HILL CO.

Wholesale Florists

RICHHMOND, IND.

Please mention Horticulture when writing.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS
Consignments Solicited

Hardy Fancy Fern Our Specialty
264 RANDOLPH ST., DETROIT, MICH.

The House for Quality and Service

ZECH & MANN

We are Wholesale Florists Doing
a Strictly Wholesale Business

30 East Randolph Street, CHICAGO



DAVID WELCH

EDWARD J. WELCH

WELCH'S

Wholesale & Commission Florists

FLORISTS' SUPPLIES

280-282 Devonshire Street,

BOSTON, MASS.

Tel. Fort Hill 1964-1965

POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut Flower Market

Daily consignments from leading growers Full line of Florists' Supplies Write for quotations before ordering elsewhere

262B DEVONSHIRE ST., BOSTON, MASS.
Telephone, Main 6267-6268

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON Feb. 1		ST. LOUIS Jan. 29		PHILA. Jan. 29	
Roses						
Am. Beauty, Special..	40.00	to 60.00	40.00	to 50.00	50.00	to 60.00
" " Fancy and Extra..	15.00	to 30.00	30.00	to 40.00	35.00	to 40.00
" " No. 1 and culls..	6.00	to 10.00	10.00	to 20.00	6.00	to 30.00
Russell, Euler, Mock..	6.00	to 15.00	8.00	to 25.00	6.00	to 25.00
Hadley..	6.00	to 30.00	5.00	to 12.00	6.00	to 20.00
Arenberg, Hoosier Beauty..	4.00	to 10.00	4.00	to 10.00	6.00	to 15.00
Ward..	8.00	to 12.00	6.00	to 12.00	5.00	to 10.00
Killarney, Radiance, Taft..	4.00	to 15.00	4.00	to 10.00	6.00	to 15.00
Ophelia, Sunburst, Hillingdon..	8.00	to 15.00	8.00	to 15.00	6.00	to 15.00
Kay..	6.00	to 15.00	.....	to	6.00	to 20.00
Carnations	3.00	to 5.00	2.00	to 4.00	4.00	to 6.00
Cattleyas..	35.00	to 50.00	50.00	to 60.00	35.00	to 50.00
Dendrobium formosum..	.....	to 50.00	.....	to	35.00	to 50.00
Lilies, Longiflorum..	8.00	to 12.00	.....	to 12.50	12.00	to 15.00
Lilies, Speciosum..	8.00	to 10.00	.....	to .....	.....	to
Callas..	12.00	to 18.00	10.00	to 15.00	12.00	to 15.00
Lily of the Valley..	4.00	to 6.00	.....	to 6.00	3.00	to 5.00
Snapdragon..	2.00	to 6.00	.....	to	5.00	to 6.00
Daffodils..	3.00	to 4.00	.....	to 4.00	3.00	to 4.00
Narcissi, Paper White..	2.00	to 3.00	.....	to 3.00	2.00	to 3.00
Roman Hyacinths..	3.00	to 4.00	.....	to 2.00	3.00	to 4.00
Freesia..	3.00	to 4.00	.....	to	2.00	to 4.00
Tulips..	4.00	to 5.00	3.00	to 4.00	2.00	to 5.00
Calendulas..	2.00	to 4.00	.....	to	3.00	to 4.00
Sweet Peas..	1.00	to 2.00	.....	to .....	.75	to 2.00
Violets..	.40	to .60	.50	to 1.50	.75	to .75
Marguerites..	1.00	to 3.00	.....	to .....	.50	to 2.00
Gardenias..	20.00	to 30.00	.....	to	5.00	to 25.00
Adiantum..	.....	to 1.00	.....	to 1.00	1.00	to 1.50
Smilax..	12.00	to 20.00	.....	to 15.00	15.00	to 20.00
Asparagus Plumosus, & Spreng. (100 Bchs.)..	25.00	to 35.00	25.00	to 35.00	25.00	to 50.00

WILLIAM F. KASTING Co.

Wholesale Florists

568-570 WASHINGTON STREET - BUFFALO, N. Y.

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER of

CUT FLOWERS

In writing to Advertisers kindly mention Horticulture

Flower Market Reports

BOSTON Brisk and spirited trading featured this week's market in nearly every instance. An unusual amount of funeral work added an appreciable volume to the routine business and stimulated the demand for white stock. White Killarney had an exceptionally "fat" week. There was no falling off in the colored lines, however, except on last Monday when trading was dull and perfunctory in all departments. The usual favorites are in demand, Ophelia, Hadley and Richmond all going nicely. Carnations have been second in price only, and not far behind at that. Bulbous stock shows nothing unusual in the way of activity, and commands only fair prices. Violets are painfully scarce. Sweet peas are just beginning to come in plentifully.

The Chicago market has nothing especially remarkable about it as the first month of the year closes. Trade, in a general way, is rather better than during the middle of the month when both demand and supply seemed to fall off. The proverbial January thaw came during the past week and with the warmer days came a marked increase in business. More stock was cut and more people were ready to buy it. The shortage is felt now more in short-stemmed roses than anywhere else. Spring flowers are coming in large quantities and while counters seem full of them during the day, all have disappeared when stores close. Some calendulas have sold as high as 6c. and the stock was large and heavy with stems 12 or 14 inches long. This flower has made wonderful growth in favor during the past two years. Carnations are bringing better prices now and while there are quantities of poor grade than are more good ones proportionately than a week ago. Freesia sells well, paper whites are bringing more than formerly. Daffodils are plentiful and there are many tulips.

CINCINNATI Stock is still rather short in this market. Warm, bright spring-like weather the first part of this week undoubtedly will help to bring in larger cuts but up to the time of this writing they had not materialized. The demand for stock is steady and active. Roses are rather scarce and have been selling up as fast as they came in. Choice American Beauties are fairly plentiful but do not move out very quickly. Carnations are more plentiful than they were and continue to favor good property. Bulbous stock is plentiful and meets with a good market. Sweet peas, callas and rubrum are meeting with a good demand. The call for single violets, orchids and lily of the valley is only ordinary.

NEW YORK Exasperatingly drowsy at times and displaying a pleasing snap and ginger erstwhile on some special item this market is jogging along, putting the season of 1916-17 behind it. Nothing sensational has transpired since our last report on market conditions. It is gratifying to note that the quality of flowers offered has never been surpassed and rarely



DAFFODILS

Splendid well grown stock,
mostly Golden Spurs,

\$4.00 per 100

A good week-end special

PUSSY WILLOW

25c, 50c and 75c

per bunch of 12 sprays

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WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI Jan. 29	CHICAGO Jan. 29	BUFFALO Jan. 29	PITTSBURGH Jan. 29
Roses				
Am. Beauty, Special.....	50.00 to 60.00	50.00 to 75.00	..... to 50.00	..... to 50.00
" " Fancy and Extra.....	30.00 to 40.00	35.00 to 45.00	25.00 to 35.00	30.00 to 40.00
" " No. 1 and culls.....	8.00 to 25.00	5.00 to 15.00	4.00 to 6.00	6.00 to 20.00
Russell, Euler, Mock.....	..... to	6.00 to 25.00	8.00 to 15.00	10.00 to 20.00
Hadley.....	..... to .....	..... to	5.00 to 15.00	..... to
Arenberg, Hoosier Beauty.....	6.00 to 15.00	..... to	6.00 to 15.00	..... to
Ward.....	5.00 to 10.00	5.00 to 12.00	4.00 to 6.00	8.00 to 12.00
Killarney, Radiance, Taft.....	5.00 to 12.00	3.00 to 12.00	4.00 to 15.00	4.00 to 15.00
Ophelia, Sunburst, Hillingdon.....	6.00 to 18.00	6.00 to 15.00	4.00 to 12.00	10.00 to 20.00
Kay.....	..... to .....	..... to	10.00 to 15.00	..... to
Carnations	3.00 to 4.00	2.00 to 4.00	3.00 to 5.00	3.00 to 4.00
Cattleyas.....	60.00 to 75.00	50.00 to 75.00	40.00 to 50.00	40.00 to 50.00
Dendrobium formosum.....	..... to .....	..... to .....	..... to	30.00 to 40.00
Lilies, Longiflorum.....	12.50 to 15.00	8.00 to 12.50	10.00 to 12.00	..... to 15.00
Lilies, Speciosum.....	6.00 to 10.00	..... to	4.00 to 6.00	..... to
Callas.....	10.00 to 12.50	6.00 to 12.00	8.00 to 12.00	..... to
Lily of the Valley.....	..... to 7.00	5.00 to 6.00	6.00 to 7.00	..... to 6.00
Snapdragon.....	4.00 to 6.00	4.00 to 8.00	5.00 to 10.00	4.00 to 10.00
Daffodils.....	3.00 to 5.00	3.00 to 4.00	4.00 to 5.00	4.00 to 6.00
Narcissi, Paper White.....	3.00 to 3.00	2.00 to 3.00	2.00 to 3.00	3.00 to 4.00
Roman Hyacinths.....	3.00 to 3.00	3.00 to 4.00	2.00 to 3.00	..... to
Freesia.....	2.00 to 4.00	4.00 to 6.00	3.00 to 5.00	3.00 to 4.00
Tulips.....	4.00 to 5.00	3.00 to 4.00	3.00 to 5.00	3.00 to 5.00
Calendulas.....	3.00 to 4.00	3.00 to 6.00	3.00 to 4.00	3.00 to 6.00
Sweet Peas.....	.75 to 1.50	.50 to 2.00	1.00 to 2.00	2.00 to 3.00
Violets.....	.75 to 1.00	.50 to 1.00	.40 to .75	.75 to 1.25
Marguerites.....	.75 to 1.00	.75 to 1.00	1.00 to 2.00	2.00 to 3.00
Gardenias.....	..... to	25.00 to 30.00	15.00 to 25.00	..... to
Adiantum.....	..... to 1.00	..... to 1.00	1.00 to 1.25	1.00 to 1.25
Smilax.....	..... to 15.00	15.00 to 20.00	15.00 to 18.00	..... to 15.00
Asparagus Plu. & Spren. (100 Bhs.)	25.00 to 50.00	25.00 to 50.00	25.00 to 50.00	30.00 to 60.00

equalled in this section. There are, of course, producers of inferior goods, for these "we have always with us" but on the average stock is very good—almost too good, it would seem, when some of the retailers come face to face with the price. Carnations have taken a substantial descent in price, but roses hold firm as a rule and are not over plentiful. Bulb stock of all kinds are coming in very heavily with a tendency to accumulate. Other stock generally holds along unchanged as to price.

PHILADELPHIA Trading has been a little brisker here while the supply of flowers continues as last reported—on the scarce side. The scarcity is particularly noticeable in roses—especially the shorter grades. American Beauty is very much off crop—a few less every day. Russells and Scott Keys are also much in the same condition—making orders in quantity hard to fill. The scarcity applies to other roses but not to so marked a degree. Carnations are rather more plentiful and continue top-notch as to quality. Orchids are more moderate in price

and enough of them for all demands. Gardenias have also dropped in price and the quality in some cases seems under the mark. Sweet peas are going well and continue very fine as to quality. They are one of the best features in the market. Mignonette is very good but for some reason hangs fire. The lily of the valley market is very much improved. Lilies, daffodils and freesias are going very well and at good prices.

The past week has been practically a repetition of its forerunner with very little change in either production, disposal or prices. McKinley Day made the usual inroads on the carnation output. Prospective cold weather with clear, blue skies promises satisfactory results insofar as the production is concerned.

This market has kept up lively. The supply is limited as to roses and carnations, especially. Violets are selling well, also sweet peas.

(Continued on page 157)

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NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS		Last Half of Week ending Jan. 27 1917		First Half of Week beginning Jan. 29 1917	
American Beauty, Special	35.00	to	50.00	50.00	to 60.00
" " Fancy and Extra	15.00	to	25.00	30.00	to 40.00
" " No. 1 and culls	6.00	to	10.00	6.00	to 15.00
Russell, Euler, Mock	6.00	to	20.00	6.00	to 20.00
Hadley	10.00	to	40.00	6.00	to 50.00
Arenberg, Hoosier Beauty	4.00	to	12.00	6.00	to 15.00
Ward	5.00	to	12.00	6.00	to 12.00
Killarney, Radiance, Taft	5.00	to	10.00	6.00	to 12.00
Ophelia, Sunburst, Hillingdon	6.00	to	12.00	6.00	to 15.00
Kay	5.00	to	12.00	6.00	to 12.00
Carnations	3.00	to	6.00	3.00	to 5.00

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Consignments Solicited

MAURICE L. GLASS, Treasurer

Flower Market Reports

(Continued from page 155)

Prices for the past week have been exceedingly high because of the general shortage of stock. Roses have been in especial demand and orders for these could not be filled in entirety. Red and white varieties are most popular and it has been almost impossible to obtain any quantity of either. The prices range from \$8 to \$20 per hundred. It was also difficult to procure any considerable quantity of carnations. There is little demand for cattleyas, although they are of very fine quality. The sale and quality of gardenias are improving. Lily of the valley is hanging fire. There are not enough sweet peas to go around. These are among the most popular flowers at this time. Violets are not doing as well as they have been and the prices vary with the demand. Tulips of all colors are selling well. There is quite a scarcity of lilies, only a small quantity of locally grown stock being available.

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MISCELLANEOUS	Last Half of Week ending Jan. 27 1917		First Half of Week beginning Jan. 29 1917	
Cattleyas	20.00	to 50.00	20.00	to 50.00
Dendrobium formosum	.....	.....	.....	.....
Lilies, Longiflorum	10.00	to 12.00	10.00	to 12.00
Lilies, Speciosum	4.00	to 8.00	4.00	to 10.00
Callas	12.00	to 18.00	12.00	to 18.00
Lily of the Valley	3.00	to 5.00	3.00	to 5.00
Snapdragons	3.00	to 5.00	3.00	to 4.00
Daffodils	4.00	to 6.00	4.00	to 6.00
Narcissi, Paper White	2.00	to 3.00	2.00	to 3.00
Roman Hyacinths	2.00	to 4.00	2.00	to 4.00
Freesia	2.00	to 4.00	2.00	to 4.00
Tulips	2.00	to 6.00	2.00	to 6.00
Calendulas	3.00	to 6.00	3.00	to 6.00
Sweet Peas	1.00	to 3.00	1.00	to 3.00
Violets	.40	to .60	.35	to .60
Marguerites	1.00	to 2.00	1.00	to 2.00
Gardenias	8.00	to 25.00	8.00	to 25.00
Adiantum	.75	to 1.00	.75	to 1.00
Smilax	15.00	to 20.00	15.00	to 20.00
Asparagus Plumosus, & Sprei (100 bunches)	20.00	to 35.00	20.00	to 35.00

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FANCY GRADE ORCHIDS, SEPTEMBER MORN, AMERICAN BEAUTY, PRIMA DONNA AND ALL OTHER ROSES, LILIES, CARNATIONS, VIOLETS, ASPARAGUS AND SMILAX and all other Seasonable Flowers.

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Cut Flowers of All the Leading Varieties
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Asparagus Plumosus Seedlings, \$1.00 per 100, \$5.00 per 1000. Ready May 1st. COL-LINGDALE GREENHOUSES, Collingdale, Pa.

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Carnation Cottage Maid.
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Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 1000 for 35c.; 3000 for \$1.00 post-paid. I. L. PILLSBURY, Galesburg, Ill.

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Stock For Sale.
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For Fall or Spring delivery. Wholesale and Retail. Send for Catalogue. NORTHBORO DAHLIA & GLADIOLUS GARDENS, J. L. Moore, Prop., Northboro, Mass.

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Woodrow & Marketos, New York City.
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Bobbink & Atkins, Rutherford, N. J.
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Thomas Roland, Nahant, Mass.
High Grade Plants for Retail Florists.
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A. M. Davenport, Watertown, Mass.
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A. Leuthy & Co., Roslindale, Mass.
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For Plants and Cuttings get our prices before ordering elsewhere. Our guarantee with every order. Write for a copy of our latest Plant Bulletin.

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Bulbs	Dracaena	Snapdragons
Calceolaria	Ferns	Violets
Calendula	Geraniums	
Cineraria	Hydrangeas	

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FERNS

A. M. Davenport, Watertown, Mass.
Small Ferns for Dishes.
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R. Vincent, Jr., & Sons Co., White Marsh, Maryland.
Boston Ferns.
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H. H. Barrows & Son, Whitman, Mass.
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F. R. Pierson, Tarrytown, N. Y.
For page see List of Advertisers.

Scottii Ferns, 2½ in. pots.....\$5.00 per 100
" " 3 in. pots..... 8.00 "
" " 2½ in. pots..... 5.00 "
ANTON SCHULTHEIS, College Point, N. Y.

FERTILIZERS

Pulverized Manure Co., Chicago, Ill.
Wizard Brand Cattle Manure.
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CLEARANCE SALE OF GLADIOLUS.

In first, second and third sizes, also Bulb-lets: Pendleton, Niagara, Mary Fennell, Mrs. G. A. Moulton, Spring Song, Glorie, Lilian Morrissey, Ida Van, Francis King, Golden King. 13 quarts of Bulblets, including 4 quarts of Pendleton. Will close out the lot at a bargain. Write for prices to the OLD TOWN NURSERIES, So. Natick, Mass.

GLASS

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Greenhouse glass, lowest prices. JOHN-STON GLASS CO., Hartford City, Ind.

GLASS—6 x 8, 8 x 10, 10 x 12, 10 x 14, \$2.00 per box. Other sizes at factory prices. C. N. ROBINSON & BRO., Dept. 29, Baltimore, Md.

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GOLD FISH

Gold fish, aquarium plants, snails, castles, globes, aquarium, fish goods, nets, etc., wholesale. FRANKLIN BARRETT, Breeder, 4815 D St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

GREENHOUSE BUILDING MATERIAL

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Specialists in Specimen Stock for Landscape Work.
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In writing to Advertisers kindly mention Horticulture

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Importers and Growers of Orchids.
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Md.
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Henry A. Dreer, Philadelphia, Pa.
Dreer's Double Petunias.

PEONIES

Peonies. The world's greatest collection.
1200 sorts. Send for list. C. BETSCHER,
Canal Dover, O.

PECKY CYPRESS BENCHES

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Robert Scott & Sons, Sharon Hill, Pa.
Agent for Alex. Dickson & Sons.
New Red Rose, Donald Macdonald.

Guttman & Raynor, Inc., New York City.
Rose Prima Donna (Mme. Paul Euler).

ROSES, CANNAS AND SHRUBS.
THE CONARD & JONES COMPANY,
WEST GROVE, PA.

SASH

STANDARD HOTBED SASH, with cross
bar, 85c. each; lots of 25 and over, 80c.
each. Satisfaction guaranteed or money
refunded. Glass 6 x 8, 8 x 10, 10 x 12 or
10 x 14, \$2.00 per box of 50 sq. ft.
C. N. ROBINSON & BRO., Dept. 29, Balti-
more, Md.

SEASONABLE PLANT STOCK

R. Vincent, Jr. & Sons Co., White Marsh,
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SEEDS

Carter's Tested Seeds.
Seeds with a Pedigree.
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Represented by
Winter, Son & Co., New York City.
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Peter Henderson & Co., New York City.
Everything for the Garden.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. LAGER
& HURRELL, Summit, N. J.

STRAWBERRY PLANTS

Strawberry Plants, \$2.50 per 1000. Cata-
logue free. BASIL PERRY, Georgetown,
Delaware.

SWEET PEA SEED

Ant. C. Zvolanek, Lompoc, Calif.
Gold Medal of Honor Winter Orchid Sweet
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VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co.
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COMET TOMATOES—Fine plants grown
from Roney's special forcing strain in
sterilized soil. Strong 2 1/4 inch plants, \$2.50
per 100; \$22.50 per 1000. Cash please.
J. J. CLAYTON & SON, West Grove, Pa.

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**NEW RED ROSE — DONALD Mac-
DONALD.**

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WHOLESALE FLORIST.

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THE NUT-GROWER

The unique monthly publica-
tion which furnishes reliable
and interesting up-to-date in-
formation regarding the value
of pecans and other edible nuts
and how to grow them for profit.

Subscription, \$1.00 per year

Sample Copy Free

THE NUT-GROWER

No. 2 Francis St.
WAYCROSS, GA.

WANTS, FOR SALE, Etc.**HELP WANTED****WANTED****A First Class Plantsman**

as greenhouse foreman on private
place near Boston; would be obliged to
board two or more assistants. Free
house and good wages to the right
party. State particulars and refer-
ences.

Address "J," care of HORTICULTURE.

Traveling Salesmen

Representing Seed and Bulb Establish-
ments and calling on Country Estates, can
increase their income considerably by
taking up a PROFITABLE SIDE-LINE.
Write for particulars and with full infor-
mation regarding territory you cover, etc.
Address

X Y Z., care of HOLTICULTURE

WANTED—Good all-round men for green-
house work and to fill orders. Must be
sober and industrious. Permanent posi-
tions and good wages to the right men.
State age, experience and wages expected in
first letter. PETER HENDERSON & CO.,
390 Arlington Ave., Jersey City, N. J.

WANTED—Landscape man to draw plans
and execute work; good chance for bright,
energetic young man. Address with full
particulars, salary expected to begin with,
etc., to "LANDSCAPE," care HORTICUL-
TURE.

SITUATIONS WANTED

WANTED—In or near Boston, situation
in Florist Store. Sixteen years experience
in buying, selling and design work; origi-
nal ideas. Best of references. Address
P. O. BOX 297, Lynn, Mass.

SITUATION WANTED as vegetable gar-
dener or general man on private estate.
Experienced in vegetables, shrubs, lawns,
etc. English, married, no family, age 38.
Address S. B., care of HORTICULTURE.

FOR SALE

To the Man who Understands the Growing
of Flowers and Vegetables

THIS IS THE OPPORTUNITY

In an academic town 26 miles from Boston,
along a much traveled state road, with the
electric cars running by the door, and
within 10 minutes walk from the center of
the town

A FLORIST ESTABLISHMENT

consisting of a six room cottage, 7 acres
of the finest level land, 1 greenhouse 80 x 24
and showhouse along the street 16 x 14,
potting shed and boilerroom. Virtually the
only florist establishment in the town; high
grade retail trade; an opportunity to make
money. Price \$5,500; easy terms to the
right man. Apply to U. S. BURNS, Frank-
lin, Mass.

MISCELLANEOUS

WANTED TO RENT with privilege of
buying 10,000 to 20,000 ft. glass, with dwell-
ing house. New England or Massachusetts
states preferred. State full particulars in
first letter. Address T. C., care of HORTI-
CULTURE.

In writing to Advertisers kindly mention Horticulture

Est. 1765

Inc. 1904

Pot Makers for a
Century and a Half**HEWS****STRONG
RED
POROUS****POTS**World's Largest
ManufacturersStandard, Azalea, Bulb, Orchid, Fern, Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.Write for Catalogue
and Discounts**A. H. HEWS & CO., Inc., Cambridge, Mass.**Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.

If you need a boiler in a hurry telephone or telegraph at our expense

KROESCHELL BOILERS

SEND FOR CATALOG

Kroeschell Bros. Co., 466 W. Erie St., Chicago**DREER'S "Riverton Special" Plant Tub**

No.	Diam.	Ea.	Doz.	100
10	20 in.	\$1.60	\$17.50	\$145.00
20	18 in.	1.45	15.50	130.00
30	16 in.	1.10	12.25	100.00
40	14 in.	.70	7.75	60.00
50	12 in.	.50	5.50	45.00
60	10 in.	.40	4.40	35.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.

HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.**NON-KINK WOVEN HOSE**

In any length (one piece) with couplings, 15c. per foot. Unequalled at the price.

**Hose Valve, 70c.**

All brass except the hand wheel. Has a removable leather disk which is easily replaced to keep water tight. Stuffing box prevents leaks at stem.

METROPOLITAN MATERIAL CO.

1392-1414 Metropolitan Ave., Brooklyn, N. Y.

Use the only shading**E. A. LIPPMAN**

6 HIGH STREET

Morristown, New Jersey

Send for Booklets

**GREENHOUSES BUILDING OR CON-
TEMPLATED.**

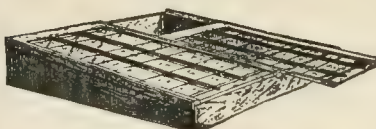
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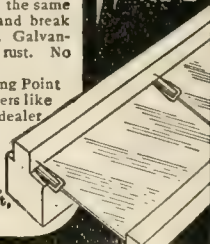
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Vol. XXV
No. 6
FEB. 10
1917

HORTICULTURE



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NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toil, we ought to blame the culture, not the soil."—*Pope*.

Bedding Plants

It is always better to allow the growth on stock plants to make enough of headway so that there can be left a couple of eyes of the young wood to follow with another batch of cuttings. If given close attention from now on they will furnish fine material for the cutting bench for weeks to come. Give all your stock plants good light, close to the glass as they want all the sun that can reach them now. The majority of bedding plants will thrive in an intermediate temperature of from 55 to 60 degrees at night, and 70 to 75 with sunshine but those that are of warmer blood will need 8 to 10 degrees more.

Carnation Cuttings

For potting up cuttings use new soil that has been exposed to the action of the weather. Screen through a half-inch mesh and it is important to have it moist enough. Cuttings should be taken in the morning while they are fresh and crisp. Dip them in cool water and trim up in a cool place. Insert as soon as possible in the propagating bench. Spray lightly early every bright morning to keep the foliage moist during the day, but try to have it dry by night. As soon as a cutting is well rooted it does not improve by remaining in the sand any longer. Before potting harden them up a little by gradually giving more sunlight each day, until the roots have pushed far enough to enable them to stand full sun. Cuttings thus treated will take hold much quicker as there will be less wilting after potting.

Chrysanthemums

All slow growing varieties and good new ones should be put in sand and rooted. Keep the sand at near 50 degrees bottom heat with 5 to 8 degrees more top heat. In a north propagating house, one good watering will carry them through until rooted, but where in an ordinary house more or less exposed to sun and ventilation they will take more water and spraying to keep them from wilting. In making a cutting remove the bottom leaves and trim the upper leaves back a little which will allow the air to circulate among the cuttings, thereby lessening the loss by damping. When rooted, pot and place them in a cool house, 45 or 50 degrees at night. Pinch two or three times. They will give an abundance of fine cuttings during April and May when your old stock plants are going to the bad. Pot them as soon as rooted into good fresh soil and keep shaded for a day or two.

Fibrous-Rooted Begonias

The following are all good varieties to grow; Erfordii, Vernon in its several colors, Snow Queen, and semperflorens rosea, Fairy Queen and others. They can be sown in pans that have been well drained, in new loam and leaf mold in equal parts with a fair dash of sand. Fill the pans to within half an inch of the top and on this place a little finely sifted compost and press moderately firm and water. When they have drained, sow the seed evenly over the surface. They do not need to be covered. Place glass and sheets of paper over the pans until the seedlings germinate. Then the pans can be placed in a temperature of about 60 degrees at night. They will want very careful watering until they are big enough to prick out into other flats.

Primulas

It is better to supply the demand, which is good from early in the fall until spring, with stock reared in successive batches, than to rely on the outcome of one or two sowings. From the middle of this month until the end of April sowings should be made at intervals of about four weeks. The first lot, to be sown now, should be seeds of such as Kermesina-splendens, rubra, Chiswick Red and Rosy Morn; also at least one flat of the best strain of Primula obconica; this latter to be followed by another sowing of the same in April. Prepare a mixture of equal parts of new loam, leaf mold and some sand. For the top, sift finely and on this sow the seed and cover very lightly and press firmly. Keep shaded with paper until the seeds start to germinate, which should be in two or three weeks. Place in a close moist house at about 60 degrees at night. When sufficiently large to handle prick out in flats and keep well up to the glass in a temperature of about 50 degrees at night.

Reminders

Keep Spanish iris in a cool house as it resents hard forcing. Do not let the night temperature exceed 50 degrees.

Spiraea japonica and its varieties will now force quite readily. Start them in a brisk heat.

Single violets are now making an abundance of runners. Select the best and root in clean sharp sand. Doubles may be similarly treated.

Repot autumn struck fuchsias and insert more cuttings if they are likely to be needed.

Next Week:—Asparagus; Crotons; Early Asters; Orchids; Sweet Peas; Reminders.

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Show arrangement

We take pleasure in presenting this week a diagram showing the plan of the National Rose Festival to be held in Philadelphia, March 20, 21, 22, 23, under the direction of the American Rose Society. It will be seen that this show will be staged to give the effect of one big rose garden. The time is rapidly approaching when all large public flower shows will be laid out on a definite perfected plan in advance. The old method of locating incongruous exhibits without considering their relationship to one another or to the show as a whole, in form, color or character, is bound to disappear and it cannot go too soon. We have very much to learn yet in the art of flower show arrangement, but it is gratifying to see that improvement is well under way.

A "new" old flower day

We are surprised and a bit amused at the claims made by one of our western contemporaries, which has been throwing bouquets at itself for having been responsible four years ago for the inauguration of a new floral holiday—Valentine's Day—and really seems to take itself seriously! The trade press is a good thing. Wherever located it has our good-will absolutely, and when one of its members accomplishes anything for the good of the trade we are glad and don't mind their boasting a little, but there's a limit. The writer of these lines spent some of his youthful years in the retail florist business and can tell our Chicago friend that at that time, forty years and more ago, Valentine's Day was a floral occasion of no small account and with sufficient demand for certain flowers to sometimes affect prices materially. Of course the amount of valentine business done was small as compared with that of the present day, but it bore a favorable relationship to the business as a whole. We refer particularly to Boston but we think the foregoing would also apply to New York, Philadelphia and other places where Cupid is wont to roam.

Is further legislation necessary?

We devote considerable space in this issue to the much-discussed quarantine question. Some of the communications which now appear have been in type for two weeks or longer and should have been used at an earlier date but for the lack of space. The international complications which have occurred in the meantime may perhaps put a somewhat different aspect on the problem from that which existed previously but the subject has lost none of its importance to the American florist and nursery trade and our readers who are at all concerned in the importing, growing or selling of the goods affected by the proposed legislation will do well to peruse carefully the correspondence herewith presented. Of the making of laws there is no end. So far as plant importation is concerned HORTICULTURE agrees that the legislation now on the statute books is all that is needed. Instead of making it more drastic, effort to co-ordinate and simplify what we have would seem to be the better course and such would assuredly meet with the hearty approval and co-operation of the trade.

Carnation classes and values

The "why" of the carnation in its relationships to the market, the grower and the public, proves to be a many angled topic and there is yet much that can be drawn out to the advantage of all concerned and to the future, commercially, of this important crop. It appears to us that the time is not far away when the wide gap between the big "show type" blooms and the old-style every day favorite flower of the people will have to be distinctly recognized in the trade and impressed upon the public, for these two classes serve separate uses and really have but little in common. As one of our correspondents aptly suggests, the production of inferior product from the modern patrician sorts brings only disappointment for the grower and discredit for the carnation. Better, far, for the man who, for whatever reason is growing for the cheap market, to leave the exhibition novelties to the grower who is able to do them creditably and can command an appreciative market at prices according, while he himself sticks to the older breeds which respond better to his methods and can be marketed profitably at a low price. In fine, there should always be a place for both the two-dollars-a-hundred and the two-dollars-a-dozen kinds, provided they are kept distinctly apart and presented accordingly.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Care of Newly Potted Plants

As soon as a batch of cuttings is potted, and set properly on the best and sunniest bench in the house, their care will have begun. A good watering should be given as soon as a number of pots are set on the bench, and if it is a sunny day, the plants should at once be shaded with two thicknesses of newspaper, making sure that the sun does not get a chance to hit the front rows. To prevent this it will be necessary to have the papers hang over the edge of the benches quite a little. It will also be advisable to have them overlap, so there will be no opportunity for the sun to get through. After the sun is well over to the west in the afternoon, take all the papers off and go over the plants quickly with a very fine nozzle, or else press real hard on the nozzle with the finger if an open nozzle is used, and spray the newly potted cuttings well, yet be careful not to get any water into the pots, as the first watering should last until the plants start, which will be about two weeks after they are potted, although root action should begin at once. If the weather is very severe, and the house very dry, see that they are sprayed once or twice during the night. Remember that they should not be drenched, merely sprayed so that the water will lie like dew on the leaves. This will keep the leaves from drying up; also will help soften the eyes, thus encouraging them to break. The night spraying should not be done except when the weather is very cold, when plenty of fire heat has to be used to keep the houses warm. Should the plants be sprayed on warm moist nights, there would surely follow a dose of spot. In the morning they should receive another spraying, after which the papers are applied again as soon as the sun begins to hit the plants. If the house happens to be shaded by its southerly neighbor, then the plants can be allowed to remain uncovered a while longer, but not too long the first few days. The paper can be sprayed over as often as may be necessary, being careful to use a fine spray so as not to have a lot of water standing on the paper to run on the pots later, thus making some very wet. Then in the afternoon the papers are removed and the plants will have lived through their first day in soil. The treatment will be about the same the first four or five days, after which the papers need not be put on until about ten o'clock in the morning, and removed much earlier in the afternoon. This is kept up until finally the shade is left off altogether. Only one thickness of paper need be used after the fourth day. Watch for dry pots along the front rows and moisten them when spraying so that the whole batch will run about even.

Get Ready for Shifting

It will not be very long before the small plants will be ready for a shift, and it will be best to get the three-inch pots all ready and the soil too, so that there will be no delay in the work when the time comes to do it. See that the large pots are all the same size so that there will not be two or three different sizes thus making it almost impossible to keep the rows straight. Use good pots. It will pay. A good pot should be porous, thus

giving the soil a chance to get air through its walls, and that is also one reason why pots should be clean and not thickly coated with scum which stops up all pores. The soil need not be so finely screened as for the first potting, and a four-inch potfull of bone meal should be added to each wheelbarrow of soil, also just a little more manure, but nowhere near as much as will be used for the last potting. Manure should be old and finely ground.

Watering the Old Plants

With the thermometer between 10 and zero most of the time, and the wind blowing a gale, plenty of fire heat will have to be applied to the houses to keep them warm. This will mean that the plants will dry out quite fast, and if they happen to be growing they will dry out faster than is expected. For this reason it will be well to look the benches over almost daily, being careful to go right down into the soil when searching for moisture, as it often happens that the soil is quite dry in the bottom of the bench while it appears fairly wet on the surface. If there are only a few dry plants along the front row, then these only should be watered. If however the plants are all more or less inclined to be dry, a thorough watering should be given. Use plenty of water at low pressure, being careful to distribute it well all over the bench, as evenly as possible. Let the water drip freely through the bench and do not worry about the water bill if there does happen to be a pool here and there under the benches. It is absolutely necessary to water heavy so that there will be no dry spots in the benches anywhere. If the benches are wet in places, apply the water just the same, for they will enjoy a little fresh water after they have had the stale water for days. If there are any benches that have not dried out for quite a while, and have not been watered for two weeks or more they had better receive a real good watering even if they are not dry. This will freshen the soil wonderfully thus helping the plants to start along once more.

Tying in the Beauty Houses

With the rush of potting and making cuttings do not neglect even a bench of Beauties, for once they are let go it will take an awful lot of work to get them into hand again, and it is still too early in the season to let them go to pieces as with a little care they can be made to produce fully as much if not more than they have since they were planted. As the season advances some of the blind wood can be removed while tying is in progress, also bear in mind the remains of the long stemmed flowers that were cut down to the wire, but had been bent down previously. If these are removed it will give the eyes that remain a chance to break again. Watch out for plants that do not have much top to carry, and see that the buds that may appear on these are removed so that they will have a better chance to take the water and feed that is applied. If any plants are cut off real badly they had better be marked by scattering some lime around them, and keeping the water away from them while watering. Not having much growth they will not need much water.

THE PLANT QUARANTINE PROJECT

Editor of HORTICULTURE:

Dear Sir:—My attention is directed to the letter from "Importer" in your Dec. 30 issue, also to John C. Wister's reply in your Jan. 20 issue. Since "Importer" (whose phraseology reveals his identity to many of us) pays state, city and Federal taxes, he surely has a right to protest against unreasonable interference with his legitimate business interests—especially when that interference comes from men in public service whose policy should be *destructive* only as applied to plant pests, but *constructive* and helpful as applied to business.

Your correspondent censures you for publishing "Importer's" letter, but is not HORTICULTURE a forum as its name implies? Is not its mission partly to protect and promote the welfare of Horticulture? "Importer" merely says in his own way what the retiring Governor of Ohio recently said—that "the realization had come to him that business was being inspected and regulated to death," while Mr. Wister uses old stock arguments that have been dunned into our mentality for so many years that we almost wish they were true, so that they would cease. The fact that you published both articles indicates a commendable sense of fairness and patience.

In most instances the importer is merely the agent for the importing florists or nurseryman; his services are required largely to enable the real importer to comply with the increasing number of Customs and Entomological regulations, he promotes American Horticulture by helping supply it with the necessary raw materials, and he is not in any way responsible for the annual damage of 700 million dollars (or is it billions) to our farm crops or forests.

The fact seems to be entirely overlooked that most of the imported pests and diseases do not come on commercial shipments, but from remote parts of the world from which the Department of Agriculture and other experimental institutions alone import, yet the measure proposed by the American Forestry Association to which "Importer" refers, seeks to place an absolute quarantine on every form of plant life—except what is consigned to the Dept. of Agriculture.

To refer only to the diseases which Mr. Wister mentions. Was not the gypsy moth imported by one of our entomologists? Did not the white pine blister rust come in on a shipment from a German firm who grows stock only for forestry purposes? Did the asparagus beetle, the cabbage worm, the onion maggot come on commercial shipments to nurserymen or florists? did any florist or nurseryman ever import any cabbages, onions, or asparagus?

Our friend "Importer" asks why we cannot combat these pests if Europe can, but I have a different reason than the one Mr. Wister gives. The Europeans cultivate the birds that live on insects; their inspectors are trained men and do not report a bad case of "crown gall" on Manetti stocks be-

cause of the callous at the base of the cuttings; they are supposed to know their business and attend strictly to that business.

The recent Forestry conference was attended by the forestry and lumber interests, also by several prominent entomologists. I listened to more misstatements than I ever heard before in the same time, no opportunity was given for discussion after each paper, but the responsibility for about every pest, from the cotton boll weevil to the wheat rust was laid at the door of the nurserymen and florists, and resolutions were unanimously adopted endorsing an absolute embargo on all plant and tree life in future—for the protection of our national forests and crops. Then I left.

Many of these men were eminent scientists, most of them no doubt fair-minded men, but how much do such men know about the commercial end of the florist business—the production of the plants and flowers they buy at Christmas and Easter? Their proposed embargo would shut out such indispensable items as Japanese lily bulbs lily of the valley pips, French and Dutch bulbs, Manetti stocks, etc. What disease could valley pips or Japanese lilies bring in that could affect our forests or crops?

The old argument is always advanced that in this broad land of ours anything can be produced that is produced elsewhere. That applies perhaps to manufactures, but not always to the products of nature. Nature drops her favors in widely scattered localities—not always within our borders. Kentias grow naturally only on Lord Howe Island; you could hardly find it on the map. Many imported items can be grown here—but not in a commercial sense. We can grow lily of the valley pips in our back yard—but which of our growers would force them?

A successful florist naturally loves plants or trees; a plant that is dry asks for water in the language he understands. A nurseryman will get out of his wagon to relieve a wayside tree from a nest of caterpillars. An average one is willing to subordinate his own interests to the general welfare at any time, but he asks the State to keep their property fairly clean so that he can keep his nurseries or greenhouses really clean, and he objects to having his business unnecessarily dislocated—especially when that dislocation would not reduce the pests that affect our forests or farm crops to any degree.

The Federal Horticultural Board of Washington consists of bureau chiefs of the Department of Agriculture. It has power to quarantine any foreign country or locality from which any pest does come—or might come—a power which it uses with discretion and in co-operation with not only our most eminent entomologists, but with the nursery and florist interests, and I think that all matters with regard to quarantine can be safely left in its hands.

JAMES MCHUTCHISON.

Editor HORTICULTURE:

Prior to the passage of the "Plant Quarantine Law" of 1912, agitation was worked up by lectures, magazine articles, pamphlets, etc., with the evident object of creating an atmosphere favorable to its passage. The impression was given that about all of the insect pests and plant diseases that affect our forests and farm crops were imported into the United States by selfish nurserymen and florists—along with the plants and nursery stock which they imported from Europe. This propaganda resulted in the passage of the Plant Quarantine Act in 1912, though the agitation still continues.

To operate the "Plant Quarantine Act" the Federal Horticultural Board was created with headquarters in Washington, D. C.; it consists of five bureau chiefs of the Department of Agriculture, with Dr. C. L. Marlatt as chairman. All of these men are well qualified for their duties and though the law gives them almost autocratic powers, power to quarantine any foreign country or locality, they have used this power with commendable discretion and moderation. But this does not satisfy a group of State Entomologists who demand nothing less than an absolute quarantine against the importation of plant life from all foreign sources.

At a meeting of Entomologists about a year ago, resolutions were passed which in effect requested the Federal Horticultural Board to put this absolute quarantine into effect, but as no action was taken, the Entomologists interested the American Forestry Association in its plans (this association consists largely of foresters, entomologists, lumber men and others interested in our forests). Naturally such men know little about the commercial side of the nursery or florist business, but when they were informed (by men who should know better) that an absolute quarantine of all imported plant life was necessary for the protection of our forests and farm crops, they took up the subject with enthusiasm and called a special conference in Washington, D. C., to adopt measures to stop importation—even of the raw materials.

The conference was held on January 19th, myself as chairman of the Legislative Committee of the S. A. F. and O. H. and J. McHutchison of New York, a member of my committee being present on behalf of the S. A. F. The Legislative Committee of the American Association of Nurserymen was also there, besides several individual members of the Nurserymen's and Florists' organizations. Many speeches and papers were delivered advocating an absolute quarantine, but no opportunity was given for discussion after each paper, so the horticultural side of the question was not voiced. Resolutions were unanimously adopted favoring an absolute quarantine, and to show what it means to the florists and nurserymen, I quote from the proposed bill the first two sections as follows:

Section 1. That it shall be unlawful for

any person to import or offer for entry into the United States any nursery stock. PROVIDED, That the Secretary of Agriculture may import, grow and propagate nursery stock in small quantities for experimental and scientific purposes, upon such conditions and under such regulations as he may advise.

Section 2. That for the purpose of this Act the term "nursery stock" shall include all field-grown florists' stock, trees, shrubs, vines, cuttings, grafts, scions, buds, bedding plants, all herbaceous plants, bulbs, roots, and other plants and plant products for propagation, except field, vegetable, flowers and tree seeds.

This bill, if passed, will shut out practically everything the florists now import, Azalea indica, bay trees and araucarias, valley pips for forcing or any other purpose, Jap lily bulbs, French bulbs, Dutch bulbs, Manetti stocks used for greenhouse grafting of roses, orchids and nursery stock of every kind. It would not only shut out Dracaena plants, but the canes which are necessary to produce them. It would shut out Kentia plants—also the seeds necessary to grow our own plants. "What for?" you ask; the answer is "To save our forests." If any member of the S. A. F. thinks it necessary to stop the importation of valley pips, Manetti stocks, or Jap lily bulbs to protect our forests, I would like to hear him.

Arrangements were made in the Conference Committee so that the measure would not be introduced in Congress until committees from the National Associations of Florists and Nurserymen had an opportunity of conferring with a special committee of the American Forestry Association appointed for that purpose. This arrangement shows the right spirit, and while the special committee consists mostly of State Inspectors we hope to be able to show them that while their plan, if put into operation, would put back the florist business many years, it would not go far in protecting our forests or farm crops or reduce the diseases which afflict them to any appreciable degree.

The measures that have threatened our interests for several years have now reached a crisis. We will need on our committee men of ability who are willing to subordinate their personal interests to the welfare of the trade—men who understand why stock is imported, why at least the raw materials are necessary to our welfare—men who know something about insect pests and plant diseases and who can adequately express their views.

Since our policy will likely have to be defined before our annual convention in August (The Nurserymen's Convention being held in June), I will seek the advice of the executive committee of the S. A. F. on the subject, but as the matter is such a vital one to many of our members, I deem it wise to inform the general trade through the medium of your columns and trust you will give this report the publicity you consider it deserves.

WM. F. GUDE,

Chairman, Legislative Committee, of the S. A. F. and O. H.

Editor HORTICULTURE:

Referring to the resolutions passed at the recent meeting of State Foresters and Inspectors in Washington, D. C., and the view held by various Federal Government officials I think the stand taken by these gentlemen in

this matter to be altogether too drastic.

If a disease breaks out among our people we try to stamp this out by means of prevention of its spread and by cure, not by prohibiting immigration, unless the disease is prevalent in local parts of a certain country and entry is forbidden from that particular locality until the disease has been controlled. This is the way we have been treating the plant disease question, and with good results; why should we have to depart from this, now that the Government has the power to restrict and forbid the importation of most any plant known to be infested?

The absolute quarantine will work a terrible hardship on the growers from other countries and be disastrous to several business enterprises in this country. If it could be conclusively shown that it would prevent the spread of pests and diseases, it might have to be established, but no one can prove this to be an absolute certainty because there are so many other carrying agencies besides plants that we should have to build a Chinese wall around the U. S. A. with mosquito netting over the top of it.

Several countries have established organizations to combat these evils and notably Holland has been doing pioneer work of this kind. For the past twenty years there has been established in that country a phytopathological service equalled by that of no other country in its efficiency. It is well known that even the most rigid inspectors in these States have to admit that all nursery stock coming from Holland is practically free from pest or disease and so effective have been the measures instituted that France and Belgium shortly before the war sent several of their inspectors to see how it was done.

Professor Ritzema Boss has been at the head of that Government Bureau ever since its establishment. With a competent staff of assistants, appointed by the Government after careful examination, stationed at the different growing centres, men who make it their life work, they absolutely control the situation with wonderful effectiveness. Not only is every nursery inspected during the summer but all plants are again looked over before being packed at the time they are ready to be placed in the boxes and not until they are found to be absolutely clean is a permit issued allowing the owner to pack and ship.

All infested stock is rejected and ordered destroyed at once and this is done. The large nurseries all have their own disinfecting material and appliances to work with, with competent workmen. The small growers are assisted by an organization established by the Pomological Society of Boskoop, supplying the disinfection service at a nominal cost per acre and no grower can afford to go without it, so low is the cost and effective the work. Again in every season bulletins are issued warning growers of the approaching breeding seasons and telling how to exterminate the evils.

It can readily be seen that such a complete service makes it practically impossible for any pest or disease to come from Holland to other States. The proposed restrictions would

simply result in a material loss to our nurserymen as well as to the consumer.

C. J. W. OTTOLANDER.

Springfield, N. J.

PLANTS CERTIFICATED AT BOSTON.

Editor HORTICULTURE:

I notice in the January 27th issue of The Florists' Exchange an editorial under the caption of "Plants Certificated at Boston," and I am wondering why the writer should single out only the plants which were certificated and say nothing whatever about those which received honorable mention and medals.

While I have not all the data in regard to these awards at hand, I think it safe to say if the whole list were published a very different impression would be given.

Since the early days of the Massachusetts Horticultural Society the recognition new and improved varieties of plants, fruits and vegetables by special awards has been an important part of its activities and it is justly proud of the work done along these lines. Its records go back for many years and about all the introductions of worth can be found therein.

The awards are made by standing committees appointed each year. These committees are composed of men who have the reputation of the Society at heart and who look well to the quality of an exhibit before placing an award upon it, feeling that only the best and most distinct should bear the stamp of approval of the Massachusetts Horticultural Society.

The writer of the article referred to enumerates nine novelties which received certificates and makes the statement that "Surely there is something wrong somewhere." "What is it?" This remark seems to me to be a little ambiguous, but I take it that he thinks there is something wrong with the Massachusetts Horticultural Society as he professes to be astonished by the small number of novelties awarded certificates. I can hardly believe that he would have us award a certificate to every novelty that is shown, good, bad or indifferent, for if we did they would not be worth the paper they were printed on. If there is "something wrong somewhere" he must look elsewhere for the cause and there is a bare possibility that it might be found in the actual number of novelties presented and in the quality of them. In the matter of new carnations, honorable mention is the highest award made to a variety shown for the first time. It must prove its value before it can hope to get a certificate or higher award, and in this connection the committee take cognizance of any action taken by the American Carnation Society in regard to the variety in question, believing that in making such awards to plants or flowers which have become of such importance that special societies have been formed to care for their interests, the wise plan is to co-operate and corroborate rather than act without information, which means much to future growers.

W. H. Fewkes.
Newton Highlands, Mass.

CLUBS AND SOCIETIES

AMERICAN SWEET PEA SOCIETY.

The following prizes will be offered at the ninth annual exhibition of the American Sweet Pea Society to be held under the auspices of the Massachusetts Horticultural Society, Horticultural Hall, Boston, July 7-8, 1917. This list includes the prizes offered by the Massachusetts Horticultural Society, and all offers of special prizes received by the American Sweet Pea Society to date. Additional prizes will be offered in the official schedule to be issued March 1.

SECTION A. PRIVATE GARDENERS.

1. Arthur T. Boddington Co., Inc., prize—Challenge Silver Cup, value \$50. To be won twice by the same exhibitor for a collection of 25 distinct varieties of Sweet Peas, not less than 20 sprays to a vase, shown with sweet pea foliage only. We will also award to competitors each year cash prizes of \$25 (1st), \$15 (2d), \$10 (3d).
2. Carter's Tested Seeds, Inc.—For three tubs of Sweet Peas, any color, in bloom. \$10 (1st), \$5 (2d).
3. Thomas J. Gray Co.—For 6 vases of Sweet Peas, 6 distinct varieties, 20 sprays to a vase. A cut-glass vase, value \$15.
4. Lord & Burnham Co.—For display arranged for effect in a space of 3x4 ft. not to exceed 3 ft. in height. Gypsophila, grasses or other foliage may be used. A gold watch, gold medal, or \$20 in cash.
5. Henry A. Dreer, Inc.—For vase of Edward Cowdy. \$5 (1st), \$2 (2d).
6. Do. for vase of New Miriam Beaver. \$5 (1st), \$2 (2d).
7. Do. for vase of R. F. Felton. \$5 (1st), \$2 (2d).
8. J. M. Thorburn & Co.—For 12 vases of Sweet Peas, 12 distinct varieties, 20 sprays to a vase. Silver cup, value \$25.

SECTION B. PRIVATE GARDENERS AND AMATEURS.

9. W. Atlee Burpee & Co.—For 12 vases of Sweet Peas in 12 distinct varieties, 20 sprays to a vase, correctly named. Silver cup, value \$25, and \$10 (1st), \$10 (2d), \$5 (3rd).
 10. Stump & Walter Co.—For 6 vases of Sweet Peas, 6 distinct varieties, 20 sprays to a vase. \$10 (1st), \$5 (2d).
 11. Malvern Greenhouses.—For vase of 25 sprays of Hercules. \$10 (1st), \$7.50 (2d), \$5 (3rd).
 12. Peter Henderson & Co.—For the best vase of 50 sprays of mixed Spencer Sweet Peas containing 12 varieties, \$10.
 13. R. & J. Farquhar & Co.—For the best 6 distinct varieties of Sweet Peas growing and blooming in pots or tubs not less than 9 or more than 12 inches inside diameter, one variety in each pot or tub. A silver cup.
 14. Sutton & Sons.—For the best display of Sweet Peas arranged for effect on a round table about 4 ft. in diameter. Gypsophila, grasses and sweet pea or other foliage may be used. A silver cup.
 15. Henry F. Michell Co.—For the best 6 vases of Spencer Sweet Peas, 6 distinct varieties, 20 sprays of each. Silver medal.
 16. Do. for the best 20 sprays of Hercules. Bronze medal.
 17. Mt. Desert Nurseries.—For 8 vases of Sweet Peas, 8 distinct varieties, 20 sprays to a vase. \$12 (1st), \$8 (2d).
- The National Association of Gardeners' silver medal will be awarded to the member of the association making the most meritorious exhibit in Sections A and B.

SECTION C. AMATEURS.

18. Joseph Breck & Sons.—For 3 vases, 3 varieties, 15 sprays to a vase. \$5 (1st), \$3 (2d), \$2 (3rd).
 19. Do. 15 sprays any white variety. \$3 (1st), \$2 (2d), \$1 (3rd).
 20. Do. 15 sprays any pink. \$3 (1st), \$2 (2d), \$1 (3rd).
 21. Do. 15 sprays any lavender. \$3 (1st), \$2 (2d), \$1 (3rd).
 22. Do. 15 sprays any crimson or scarlet. \$3 (1st), \$2 (2d), \$1 (3rd).
 23. Do. 15 sprays any cream. \$3 (1st), \$2 (2d), \$1 (3rd).
 24. Do. 15 sprays any maroon or purple. \$3 (1st), \$2 (2d), \$1 (3rd).
- The Secretary's Prize. A sweepstake

Meetings Next Week

Monday, Feb. 12.

Cleveland Florists' Club, Hollenden Hotel, Cleveland, Ohio.
Gardeners' and Florists' Club of Baltimore, Florists' Exchange Hall, Baltimore, Md.
New York Florists' Club, Grand Opera House, New York City.
Rochester Florists' Association, 95 Main St., East Rochester, N. Y.

Tuesday, Feb. 13.

Newport Horticultural Society, Newport, R. I.

Wednesday, Feb. 14.

Cincinnati Florists' Society, Jabez Elliott Flower Market Cincinnati, O.

Dutchess County Horticultural Society, Falkkill Bldg., Poughkeepsie, N. Y.

Lenox Horticultural Society, Lenox, Mass.

Morris County Florists' and Gardeners' Society, Madison, N. J.

Nassau County Horticultural Society, Pembroke Hall, Glen Cove, N. Y.

Thursday, Feb. 15.

Essex County Florists' Club, Krueger-Auditorium, Newark, N. J.
New Orleans Horticultural Society, Association of Commerce Bldg., New Orleans, La.

North Westchester County Horticultural Society, Mt. Kisco, N. Y.
Tacoma Florists' Association, Macabee Hall, Tacoma, Wash.

Friday, Feb. 16.

North Shore Horticultural Society, Manchester, Mass.

prize of \$5.00 will be awarded to the vase of Sweet Peas shown in the amateur classes, which in the opinion of the judges shows the highest culture. Massachusetts Horticultural Society amateur classes included.

SECTION D. OPEN AND MISCELLANEOUS.

25. C. C. Morse & Co.—For the finest and most meritorious display of Sweet Peas, quality and arrangement to count (open to the seed trade only). A silver cup, value \$25.

Additional prizes will appear in schedule.

SECTION E.

Massachusetts Horticultural Society's prizes.

256 to 267. 25 sprays any white variety, crimson or scarlet, yellow, blue, bluish, deep pink, cream pink, orange, lavender, purple, maroon, striped or flaked, red or rose. \$4 (1st), \$2 (2d).

FOR AMATEURS ONLY.

271 to 279. White, pink, dark pink, lavender, salmon, crimson, primrose, scarlet, any other color, each 12 sprays to a vase. \$2 (1st), \$1 (2d).

TO BE CLASSIFIED LATER

Worcester County Horticultural Society, Silver Medal. Gardeners' and Florists' Club of Boston, \$25. Fottler, Fiske, Rawson Co., \$25.

The Official Schedule will be contained in the Bulletin to be issued on March 1. Additional offers of prizes will have to be received soon as the schedule will be final.

Address all communications to William Gray, secretary, Bellevue avenue, Newport, R. I.

The Worcester County (Mass.) Horticultural Society had a ladies' day on February 1st. There was a very enjoyable musical program.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Department of Plant Registration.

The Conard & Jones Company of West Grove, Pa., submit for registration the cannas described below. Any person objecting to the registration or to the use of the proposed names is requested to communicate with the secretary at once. Failing to receive objection to the registration, the same will be made three weeks from this date.

Aurora (Wintzer's)—Green foliage; plants 5 ft. high; good habit; large clusters of flowers of a brilliant scarlet; petals broadly edged with pure yellow.

Snow Queen—Flowers 6 inches across, of crystal whiteness, revealing faint opalescent flashes of fairy pink spots. The general effect is distinctly white. Petals are 2½ inches broad and of firm texture. Foliage is green and plant about 4ft. in height.

Druid Hill—Dark stems and deep red flowers; foliage nearly like "Black Beauty;" of unusual grace and effectiveness; high; well-poised heads of average sized flowers; color combination unmatched.

Morning Glow—A most picturesque color contrast; foliage olive-green striped and veined with bronze, flowers an exquisite soft shell-pink with orange-red center.

National Flower Show, St. Louis, Missouri, April 6-15, 1918.

The following prizes have been offered by Henry A. Dreer, Inc., Philadelphia, Pa., to be competed for by private growers only:

Hardy Perennial Plants—Best collection in flowers, covering not less than 100 sq. ft. First prize: Gold medal, value \$50.00 or purse of \$50.00 in gold. Second prize: Silver medal, value \$25.00, or purse of \$25.00 in gold.

Hybrid Tea Roses—Best collection of varieties, covering not less than 100 square feet. First prize: Gold medal, value \$50.00, or purse of \$50.00 in gold. Second prize: Silver medal, value \$25.00, or purse of \$25.00 in gold.

Hybrid Tea Rose, Los Angeles, Best Six Plants in Bloom—First prize, \$10. Second prize, \$5.00.

Fancy Caladiums, 12 best plants, not less than 6 inch pots—First prize, \$10.00. Second prize, \$5.00.

Cyrtomium Rochfordianum Compactum. Best plant—First prize, \$5.00. Second prize, \$3.00.

Astilbe Arendsi Hybrida. Best six plants in bloom—First prize, \$8.00. Second prize, \$4.00.

Bletia Hyacinthina. Best plant in bloom—First prize, \$5.00. Second prize, \$3.00.

Iris Germanica. Best plants, 6 varieties, 8 inch pans in bloom. First prize, \$5.00. Second prize, \$3.00.

JOHN YOUNG, Secy.

AMERICAN CARNATION SOCIETY.

Our report last week covered the major part of the proceedings and exhibition news from the Indianapolis meeting of this society. Probably one of the most impressive object lessons, from the standpoint of the growers was the splendid condition of the flowers from the extreme East. The long keeping qualities of carnation blooms when well grown and properly handled was impressively demonstrated in the exhibit of C. S. Strout, for example, which had traveled 1,500 miles from Biddeford, Maine, and only one flower was found not in perfect condition on arrival at Indianapolis.

Besides the regular carnation exhibits on which we made full report last week, there were six well-arranged table decorations by the leading retail florists of the city, also the following:

Rose Pink Ophelia, from Breitmeyer, Mt. Clemens, Mich.; Rose Mrs. Sarah Yeats, by J. E. Yeats, Champaign, Ill.; Rose Red Radiance, from Gude Bros. Co., Washington, D. C.; Dwarf Solanum capsicastrum, by C. Hagenburger, West Mentor, O.; Chrysanthemum Hamburg Late White, from C. T. Guenther, Hamburg, N. Y.; Chrysanthemum Mistletoe, from H. P. Smith, Piqua, O.; Cattleyas, by W. J. and M. S. Vesey, Fort Wayne, Ind.; Begonias, by J. A. Peterson, Cincinnati; Sweet peas, from Hartje & Elder, Indianapolis, Peter Weiland, New Castle, Ind., and Deerfield Nurseries, Deerfield, Ill.; Freesias, from Zech & Mann, Chicago.

The Hitchings & Co., sweepstakes cup offered in the 100-bloom class was won by Cottage Gardens Co., Queens, N. Y.

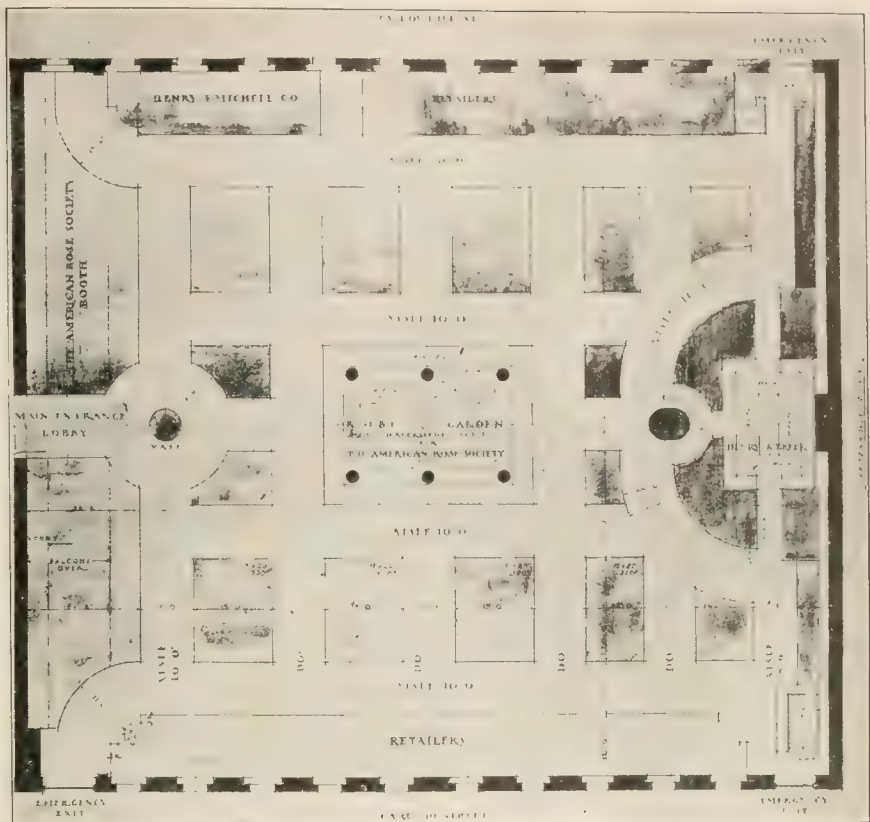
Prof. Lempke, of the University of Ill., read a paper on Carnation Yellows, which brought out considerable discussion. A talk by W. A. Clarke, of Pittsburgh, Pa., on the Marketing of Carnations was well discussed.

J. A. Peterson gave a very enjoyable stereopticon lecture on Begonias and Cyclamen.

The visitors enjoyed an automobile ride to several of the local growers' places.

MASSACHUSETTS HORTICULTURAL SOCIETY.

There were some rather interesting plants shown at the small exhibition held Saturday, February 3d. First prize was awarded to Mrs. John L. Gardner for six plants of Begonia Gloire de Lorraine. Mrs. Gardner also received 1st prize for six plants of Primula sinensis, A. M. Davenport, 2d. A silver medal was awarded to George Melvin for Dendrobium mobile virginialis. Honorable mention was awarded to Thomas Roland for an exhibit of Begonias, sports of Gloire de Lorraine; also to Alfred E. Parsons, Manchester, Mass., for a new seedling of Primula malacoides. Vote of thanks to Mrs. Gardner for an exhibit of Senecio petasites, and gratuity to Eric H. Wetterlow of Manchester, Mass., for hybrid primulas, a cross between Primula stellata and Primula sinensis. Mrs. Gardner was also awarded a gratuity for Aphelandra aurantiaca Roezlii.



FLOOR PLAN, NATIONAL ROSE FESTIVAL AT PHILADELPHIA

At the First Regiment Armory, Broad and Callowhill Streets, March 20, 21, 22, 23, under the Directors of the American Rose Society

Plants and Cuttings

Ready for Immediate Sale

	Per 100	1000
ASPARAGUS Sprengeri, 2 1/4-in. pots.....	\$3.00	
3-in. pots.....	6.00	
ABUTILON Savitzii, 2 1/4-in. pots.....	3.00	
ACHYRANTHES, Rooted Cuttings.....	1.00	\$8.00
AGERATUM, Blue and White, Rooted Cuttings.....	1.00	8.00
COLEUS, 20 sorts, Rooted Cuttings.....	1.00	8.00
CUPHEA, Rooted Cuttings.....	1.00	
DRACENA Indivisa, 4-in. pots.....	15.00	
DRACENA Indivisa, 5-in. pots.....	25.00	
FEVERFEW, Double White, Rooted Cuttings.....	1.50	12.00
FUCHSIAS, Rooted Cuttings.....	1.50	14.00
FUCHSIAS, 2 1/4 in. pots.....	3.00	
GERMAN IVY, Rooted Cuttings.....	1.00	
GERANIUMS, Rooted Cuttings.....	1.75	15.00
HELIOTROPE, Light and Dark, Rooted Cuttings.....	1.00	8.00
LOBELIA, Double Blue, Rooted Cuttings.....	1.50	
LEMON VERBENAS, 2 1/4-in. pots.....	4.00	
LANTANAS, 2 1/4-in. pots.....	3.00	
MOONVINE, White, Rooted Cuttings.....	2.00	
SALVIA, New sorts, Rooted Cuttings.....	1.50	12.00
SALVIA Splendens and Bedman, Rooted Cuttings.....	1.00	8.00
TRADESCANTIA, Rooted Cuttings.....	1.50	
VINCA Variegata and Elegans, 4-in. pots.....	10.00	
VINCA Variegata and Elegans, 2 1/4-in. pots.....	3.00	

WOOD BROTHERS
FISHKILL, N. Y.

LILY OF THE VALLEY PIPS

The large bell type, for private estate use.

WM. H. SIEBRECHT
Astoria, N. Y. City

FERNS, ETC.

NEPHROLEPIS TEDDY, JR., 2 1/4-in. pots, \$6.00 per 100; 3 1/2-in., \$15.00 per 100; 6-in., \$6.00 per dozen; 8-in., \$12.00 per dozen.
NEPHROLEPIS SMITHII, 3 1/2-in. pots, \$3.00 per dozen.
NEPHROLEPIS MUSCOSA, 3 1/2-in., \$3.00 per dozen.

FICUS ELASTICA, 50c., 75c. and \$1.00 each.

F. R. PIERSON, Tarrytown, N. Y.

ORCHIDS

We grow and sell nothing but ORCHIDS. If you are in the market for this class of plants we respectfully solicit your inquiries and orders. Special lists on application.

LAGER & HURRELL, Summit, N. J.

ROBERT DYSART
CERTIFIED PUBLIC ACCOUNTANT

Simple methods of correct accounting especially adapted for florists' use.

BOOKS BALANCED AND ADJUSTED.
40 STATE ST. BOSTON

Telephone Main 58

CEDAR ACRES—GLADIOLI EXCLUSIVELY

Catalogue giving full cultural directions and attractive prices on all varieties

IT IS FREE

B. HAMMOND TRACY,

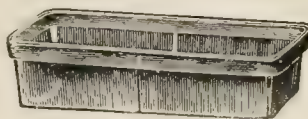
Wenham, Mass.
Box H.

Pansy and Verbena Baskets

Their use assures the Florist and Greenhouse man the largest cash return for their plants.



Small size No. 0
9 in. long, 6 in. wide, 3 in. deep.



Large size No. 2
13 in. long, 7 1/2 in. wide, 3 1/2 in. deep

Nested 500 in a crate. Wire handles detached. Price \$9.00 per 1000 | \$2.00 per 1000 extra
Nested 250 in a crate. Price \$17.00 per 1000

Samples Sent Free Upon Request

G. P. READ, Inc., 199 Duane St., New York

NEBRASKA STATE FLORISTS' SOCIETY.

A well-attended meeting, useful discussions and a very enjoyable banquet were the features of the annual session of this society at Lincoln on Tuesday, January 16. Officers were elected as follows: President, C. H. Frey of Lincoln; vice-president, G. M. Johnston, of Beatrice; secretary-treasurer, Lewis Henderson, of Omaha; directors, W. B. Yule of Lincoln, J. R. Simanton of Falls City, W. E. Davidson of Holdrege.

A credit committee consisting of Roy Wilcox, of Des Moines, Ia.; Frank X. Stuppy, of St. Joseph, Mo.; C. H. Frey, of Lincoln, Neb.; C. P. Mueller, of Wichita, Kan., and J. J. Hess, of Omaha, was appointed. There was a good display of flowers for which prizes were awarded as follows:

Fifty roses—Lewis Henderson, Omaha, 1st; Simanton & Pence, Falls City, 2nd.

Fifty carnations—J. K. Hiltner, Lincoln, 1st; Simanton & Pence, 2nd. One hundred sweet peas—J. K. Hiltner, 1st; Simanton & Pence, 2nd.

Display of cut flowers—Simanton & Pence, 1st; Lewis Henderson, 2nd.

The speakers at the banquet included Chas. Green, Fremont; J. J. Hess,

Omaha; Chas. Mueller, Wichita, Kan.; P. J. Foley, Chicago; Roy Wilcox, Council Bluffs, Ia.; J. S. Wilson, Des Moines, Ia.; M. H. Levine, New York.

HORTICULTURAL SOCIETY OF NEW YORK.

An exhibition of plants and flowers will be held on Saturday and Sunday, February 17th and 18th, at the American Museum of Natural History, 77th street and Central Park West. It will be held in the foyer of that building, which affords much better facilities for display than did the room formerly used for this purpose.

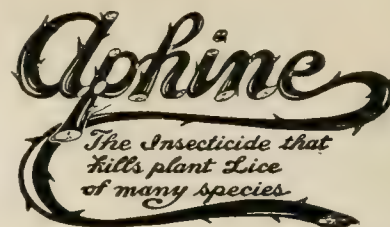
Classes are provided for cut blooms of orchids, roses, sweet peas, mignonne, snapdragons, narcissus, freesias, early tulips, Darwin tulips, flowering shrubs and trees. Premiums are also offered for plants of schizanthus, cyclamen, amaryllis, lilies, primulas, cinerarias, and ferns. Special prizes may also be awarded for worthy exhibits not provided for in the schedule. Schedules are now ready for distribution and will be sent on application to the secretary, George V. Nash, Mansion, New York Botanical Garden, Bronx Park, New York City.

There will be a meeting of the society on Saturday, February 17th, in the West Assembly Hall, at 4 P. M., at which an illustrated lecture will be delivered by Mrs. Max Farrand, on "Roses, and the New Rose Garden at the New York Botanical Garden."

GEORGE V. NASH, Secy.

At the annual meeting of the New Bedford, (Mass.) Horticultural society, the following officers were elected: President—L. J. Hathaway, Jr.; vice-president—Dr. Garry deN. Hough; financial secretary—Walter K. Smith; secretary—J. M. Taber; treasurer—W. A. Luce; executive committee—Frank G. Tripp, chairman; Arthur E. Griffin, C. W. Young, Joseph S. Figueiredo, David F. Roy, Joseph W. Webster, James H. McVicker, Andrew J. Fish, Joseph A. Niolet, J. Arnold Wright; entertainment committee—Frank C. Barrows, chairman; James H. McVicker, Nathaniel P. Sowle.

The executive committee will make arrangements for four shows this year.



The Recognized Standard Insecticide. A spray remedy for green, black, white fly, thrips and soft scale.

Quart, \$1.00; Gallon, \$4.50.

NIKOTIANA

A 12% nicotine solution properly diluted for fumigating or vaporizing.

Quart, \$1.50; Gallon, \$4.50.

Until further notice shipments on our products FUNGINE, VERMINE and SCALINE will be subject to conditions of the chemical market.

Prompt shipments can be guaranteed on APHINE and NIKOTIANA.

Aphine Manufacturing Co.
MADISON, N. J.



Save your plants and trees. Just the thing for greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrips, Red Spider, Black and Green Fly, Mites, Ants, etc., without injury to plants and without odor. Used according to direction, our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pets. Excellent as a wash for dogs and other animals. Relieves mange. Dilute with water 30 to 50 parts.

1/2 Pint, 25c.; Pint, 40c.; Quart, 75c.; 1/2 Gallon, \$1.25; Gallon, \$2; 5 Gallon Can, \$9; 10 Gallon Can, \$17.50. Directions on package.

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TRADE MARK

CONCENTRATED PULVERIZED MANURE

Pulverized or Shredded CATTLE MANURE

Pulverized SHEEP MANURE

The Florists' standard of uniform high quality for over ten years. Specify WIZARD BRAND in your Supply House order or write us direct for prices and freight rates.

The Pulverized Manure Co.
No. 31 Union Stock Yards
CHICAGO

IMP. SOAP SPRAY

Is a scientifically prepared compound that is highly efficient for ALL insect pests. Why bother with several sprays when this will answer every purpose throughout the year?

LOOK FOR THE IVY LEAF TRADE MARK.

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When writing to advertisers kindly mention HORTICULTURE.



NIKOTEEN
For Spraying
APHIS PUNK
For Fumigating
Ask Your Dealer For It.
NICOTINE MFG. CO.
ST. LOUIS

The "Why" Of The Carnation

"Economic Interminism" guides our every act, hence the distributor of bulbs, flowers or plants sells those giving greatest "profits." The carnation in some sections is not in highest favor, but can we expect more? At Christmas, Easter, etc., we crowd the price high, handle fully developed stock the keeping quality of which is worthless; no florist would for a moment accept the stock—pay the price, too—never! It would prove more profitable to keep average prices a bit higher and not so high at Christmas, etc.

Today carnations have so much disease—in recent years entirely too much so—which gives much of the stock an off-color, impairs their keeping value, and yields a lot of inferior blooms. Several sorts sent out in the past several years have shown up 50 to 100 per cent. worthless because of disease. This season it shows in the inferiority of the blooms; next year the cuttings taken from these plants give stock that is worthless to bench. Yet in buying cuttings one gets these all counted in. No one can produce clean, healthy cuttings for \$15.00 or \$20.00 per 1,000, but so long as it is price rather than quality we must cater to price, and low price must carry with it poor quality, and poor quality cuttings means low quality blooms—no profit.

By careful selection we have Philadelphia that is a joy to behold, also others in the same class; but we cannot sell the cuttings at "market rates." Today we received 2,000 of a 1917 novelty, a lot of it reeking with disease. About one-third should never have been put in sand, or the plants in the bench, last fall. It cannot give results. These sick ones go back and in return I will be roasted as a "kicking quibbler," impossible to please. But why should I accept and pay for diseased stock?

If I keep them all, when ready to go into the field I shall have about 1,750; when ready to bench, 1,400; in March, 1,000 fit for fine blooms and cuttings of health.

Our introducers must send out healthier cuttings, give greater care in propagating and selecting, and less disease. No certificate should be granted nor award made unless the stock is in a high health condition; no novelty that runs as high in diseased ones as several recent ones can be anything but chilling to the enthusiastic grower. If the exacting grower can show benches nearly 100 per cent. perfect our breeders ought to come to a close 100 per cent. also.

The A. C. S. should test out all novelties to guard against the undesirable ones. No one ought to object if necessary to ask more for novelties. If they test out O. K., then we can afford to pay more.

If carnations are "undesirable" in some sections, better quality, better prices, better growing, growers, wholesalers, retailers, ought to bring up the remedy.

BOLGIANO'S TOMATO SEEDS

Are grown by us as far
north as Tomatoes
will mature.

They are Free from Blight—
Most Carefully Grown—Most
Carefully Selected—Most
Carefully Saved

JUST FOR SEED

Bolgiano's Tomato Seeds are
well known for their big yields
of large, firm, solid, meaty uni-
form Tomatoes.

We grow Tomatoes—just for
seed, even the pulp we destroy.
Not an ounce of Canning House
Tomato Seed is allowed to
enter our Establishment.



"JOHN BAER" TOMATO

WHOLESALE TOMATO SEED PRICES (To the Trade Only)

	Oz.	¼ lb.	½ lb.	1 lb.
"JOHN BAER" TOMATO SEED.....	\$0.75	\$2.00	\$3.75	\$7.50
"GREATER BALTIMORE" TOMATO SEED .....	.25	.75	1.25	2.50
"GREATER BALTIMORE" TOMATO (Special Stock Seed)...	.30	1.00	1.75	3.50
MY MARYLAND TOMATO SEED .....	.25	.75	1.25	2.50
MY MARYLAND TOMATO (Special Stock Seed).....	.30	1.00	1.75	3.50
THE GREAT B B BOLGIANO'S BEST.....	.20	.50	.90	1.75
RED ROCK EXTRA FINE STOCK.....	.20	.50	.90	1.75
RED ROCK (Special Stock Seed).....	.25	.75	1.25	2.50
BURPEE'S MATCHLESS TOMATO .....	.20	.50	.90	1.75
LIVINGSTON'S PERFECTION TOMATO.....	.15	.40	.75	1.50
BRINTON'S BEST TOMATO SEED.....	.15	.40	.75	1.50
WORLD'S FAIR TOMATO SEED.....	.15	.40	.75	1.50
BOLGIANO'S NEW CENTURY TOMATO .....	.15	.40	.75	1.50
BOLGIANO'S NEW QUEEN TOMATO .....	.15	.40	.75	1.50
DWARF STONE TOMATO SEED.....	.15	.40	.75	1.50
I. X. L. BOLGIANO'S EXTRA EARLY.....	.25	.85	1.50	3.00
BONNY BEST (Purest Stock).....	.25	.75	1.15	2.25
LIVINGSTON'S NEW STONE (Pure) .....	.20	.50	.90	1.75
LIVINGSTON'S NEW STONE (Special Stock Seed).....	.25	.75	1.25	2.50
LIVINGSTON'S PARAGON TOMATO .....	.20	.50	.90	1.75
MAULE'S SUCCESS TOMATO SEED.....	.20	.50	.90	1.75
KELLY RED OR WADE TOMATO SEED.....	.25	.75	1.15	2.25
LIVINGSTON'S FAVORITE TOMATO.....	.20	.50	.90	1.75
KING OF THE EARLIEST TOMATO.....	.25	.60	1.00	2.00
SPARK'S EARLIANA TOMATO .....	.20	.50	.90	1.75
CHALK'S JEWEL TOMATO (Pure).....	.25	.60	1.00	2.00
TEN TON TOMATO .....	.15	.40	.75	1.50
NEW JERSEY RED TOMATO.....	.15	.40	.75	1.50
TROPHY TOMATO SEED .....	.15	.40	.75	1.50

TOMATO SEED FOR YOUR 1917 CROP

You will get an enormous crop of Tomatoes from Bolgiano's Tomato Seeds this year. Our Seed was saved from one of the largest crops we have ever had, due to being favored by weather conditions. The vines were loaded with Large, Solid, Red Fruit. We know positively by planting Seed from this "Big Crop" your yield will be much larger than if you had bought seed grown where the weather conditions were not favorable.

J. BOLGIANO & SON, BALTIMORE, MD.

GROWERS OF PEDIGREE TOMATO SEEDS
THIS IS OUR 99TH YEAR

Send for our Complete Catalogue giving lowest prices to Florists and Market Gardeners.

Bright fresh quality at right prices
will always be demandable—at least
such is the observation of
Canal Dover, O. C. BETSCHER.

We have in the St. Louis flower market at all times to contend with a large supply of "junk." When a grower endeavors to supply the market with first class stock he should be rewarded with a fair price, which would compel a flower buyer to consider the flower a luxury. We western folks hear about Boston retailing carnations in mid-winter at \$2.00 per dozen. At the carnation meeting held in St. Louis in 1916 many visitors, who saw the splendid blooms grown in the east, remarked, "we do not get such carnations on sale here, but would the buyers be willing to pay the price that such flowers should bring?" I venture

to say they would if they were educated to it. On the other hand if Al stock can be as easily grown and in as great a quantity as inferior grades then there should be prices established as nearly as possible to make it profitable to all the hands this stock passes through on the way to the consumer. It seems to me that parties buying flowers for cash and carrying same away with them should be able to buy at a cheaper rate than parties desiring delivery and credit. A retailer could in such a case certainly be satisfied with a less profit. Thus a retailer paying 4c. for a carnation could turn his money over at 75c. per dozen, but with delivery and credit he would have to charge one dollar. Could not this be discussed? Should like to hear from others.

St. Louis.

C. W. WORS.

Michell's Seasonable Bulbs

CANNA ROOTS

	Per 100	1000
AUSTRIA: Yellow	\$3.00	\$25.00
BRANDYWINE: Scarlet	3.00	27.50
CHAS. HENDERSON: Crimson	3.00	27.50
CRIMSON BEDDER: Crimson	3.00	27.50
DR. ACKERKNECHT: Red	5.00	40.00
EGANDALE: Red	3.00	27.50
EXPRESS: Crimson	3.50	30.00
FLORENCE VAUGHAN: Yellow and Red	3.00	25.00
GLADIATOR: Yellow and Red	3.00	25.00
GUSTAVE GUMPER: Yellow	5.00	40.00
ITALIA: Red and Yellow	3.00	25.00
KATE F. DEEMER: Yellow and Red	4.00	35.00
KING HUMBERT: Orange Red	3.50	30.00
MAROS: Cream	4.00	35.00
METEOR: Red	8.25	75.00
MUSAFOLIA: (Foliage variety)	2.50	20.00
GLADIAFOLIA: (Foliage variety)	7.00	60.00
PRESIDENT MCKINLEY: Red	3.25	30.00
QUEEN CHARLOTTE: Red and Gold	3.00	25.00
RICHARD WALLACE: Yellow	3.00	27.50
ROSEA GIGANTEA: Rose	10.00	85.00
VENUS: Pink	3.50	30.00
WYOMING: Red	2.50	20.00

GLADIOLUS BULBS

	Per 100	1000
AMERICA: Delicate Pink	\$1.75	\$15.00
AUGUSTA: Pure White	1.85	16.00
BRENCHLEYENSIS: Scarlet	1.40	12.00
GLORY OF HOLLAND: White, lavender an- thers	2.50	20.00
MAY: White, pencilled crimson	2.25	20.00
MRS. FRANCIS KING: Scarlet	1.50	13.50
PINK AUGUSTA	2.25	20.00
PINK PERFECTION	4.00	35.00
SPECIAL WHITE and LIGHT MIXTURE	1.75	6.00

(Also all other varieties)

Also — BEGONIAS, CALADIUM, ESCULENTUM, and
FANCY LEAVED CALADIUMS, TUBEROSES,
ETC.

Send for WHOLESALE catalogue

HENRY F. MICHELL CO., 518 Market Street, Phila.

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Kirby B. White, Detroit, Mich.; First Vice-President, F. W. Bolgiano, Washington, D. C.; Second Vice-President, L. L. Olds, Madison, Wis.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.—Convention at Detroit, June 19, 1917.

American Seed Trade Association.

The Executive Committee of the American Seed Trade Association met in New York, January 30th, and decided to hold the next convention at Detroit, June 19th, 1917. The date was changed after a practically unanimous vote that had been polled by mail. Those in attendance were: Pres. Kirby B. White, Sec'y C. E. Kendel, John M. Lupton, John L. Hunt, Howard M. Earl, Leonard H. Vaughan, and Wm. G. Scarlett, of the committee; and on invitation, M. H. Duryea, Watson S. Woodruff and Chas. D. Boyles. A tentative program was also under consideration.

One Week's Imports.

Imports at the port of New York, of horticultural material, for the week ending January 26th, were recorded as follows:

Bulbs—France, \$125; Netherlands, \$3,633; England, \$402; China, \$44.

Plants—France, \$7,252; Netherlands, \$2,888; England, \$1,994; Ireland, \$217; Japan, \$57.

PIN MONEY MUSHROOM SPAWN

8 lb. for \$1.00

Directions Included

WM. ELLIOTT & SONS
42 Vesey St., New York

"Seeds with a Lineage" All Varieties
Thoroughly tested at our trial grounds, Raynes
Park, London, England. Send for Catalogue

CARTERS TESTED SEEDS, Inc., 166 Chamber of
Commerce Bldg., Boston, Mass.

Red clover seed—France, \$54,160.
Clover seed—France, \$10,899.
Grass seed—England, \$237; Aus-
tralia, \$343.

Other seeds—France, \$11,135; Den-
mark, \$792; Netherlands, \$1,115; Italy,
\$221; England, \$28,275; Scotland, \$2-
482; Spain, \$1,874; Hongkong, \$185;
Japan, \$634; Mexico, \$680.

Nitrate of soda—Chile, \$115,320.
Other fertilizers—Scotland, \$109.

Congressional Seed Distribution.

List of successful bidders and kinds
of seed awarded to each:

Aggeler & Musser Seed Co., Los Angeles, Calif.—Contract: Peas. Barteldes Seed Co., Lawrence, Kas.—Surplus: Turnips. John Bodger & Sons Co., Los Angeles, Calif.—Surplus: Calendula, Delphinium; Contract: Beet, Carrot, Radish, Candytuft, Coreopsis, Mignonette. California Seed Growers Ass'n, San Jose, Calif.—Surplus: Beet, Lettuce; Contract: Onion, Parsley, C. Herbert Coy Seed Co., Valley, Neb.—Surplus: Cucumber; Contract: Squash. C. P. Coy & Son, Waterloo, Neb.—Surplus: Cucumber; Contract: Squash. Ebbert Seed Co., Rocky Ford, Colo.—Contract: Cucumber. Walter Hindes, R. 3, Rocky Ford, Colo.—Surplus: Cucum-
ber. Irvin Brothers, Rocky Ford, Colo.—Surplus: Cucumber. Kimberlin Seed Co., Santa Clara, Calif.—Surplus: Onion; Con-
tract: Onion, James L. Mauldin, Cairo, Ga.—Surplus: Collards. Norton H. Morris-
son, Fairfield, Wash.—Contract: Candytuft, Poppy (double). E. O. Morrison, Fairfield, Wash.—Contract: Parsnip, Radish, Turnip, Poppy (single). Geo. R. Pedrick & Son, Pedricktown, N. J.—Contract: Squash, To-
mato. L. C. Pharr, Catherine, Ala.—Con-
tract: Okra. King Pharr, Catherine, Ala.—
Contract: Okra. Pieters Wheeler Seed Co., Gilroy, Calif.—Surplus: Lettuce, Radish; Contract: Beet, Carrot, Parsley, Parsnip. P. J. Reifel, Rocky Ford, Colo.—Contract: Cucumber. Rogers Brothers, Alpena, Mich.—
Surplus: Peas. Waldo Rohnert, Gilroy, Calif.—Surplus: Lettuce; Contract: Carrot, Onion, Parsley, Parsnip, Radish. Rout-
zahn's Company, Arroyo Grande, Calif.—
Surplus: Calendula, Delphinium; Contract: Radish, Candytuft, Mignonette, Poppy (double), Poppy (single). Sioux City Seed & Nursery Co., Sioux City, Ia.—Surplus: Carrot, Lettuce, Tomato, Turnip; Contract: Corn (sweet). Standard Seed Growers Ass'n, 304 Rialto Bldg., San Francisco, Cal.—Contract: Carrot, Radish. H. Van Buskirk Seed Co., Rocky Ford, Colo.—
Surplus: Cucumber. Contract: Cucumber

Hartwell Wagoner, Rocky Ford, Colo.—
Contract: Cucumber. S. D. Woodruff &
Sons, Orange, Conn.—Surplus: Onion, To-
mato; Contract: Onion, Parsnip, Radish,
Tomato.

Approved:

Chief,
Bureau of Plant Industry.
January 24, 1917.

CATALOGUES RECEIVED.

R. W. Swett, Saxtonville, Mass.—
Catalogue of Riverbank Gardens Se-
lect Dahlias, 1916-1917.

Weeber & Don, New York—General
Catalogue for 1917. New Hybrid
Poppies in color make a very pretty
cover decoration. Illustrations excel-
lent throughout.

Wm. Elliott & Sons, New York—
"Seeds Famous Over Seventy-one
Years." A well printed catalogue ex-
ceptional as to illustrations and in
one of the most attractive covers we
have seen this season.

Arthur T. Boddington Co., Inc.,
New York City—Spring Garden Guide
for 1917. A very attractive catalogue
externally and between covers. "Cov-
er" collection of sweet peas in natural
colors includes Jean Ireland, Hercules,
R. F. Felton, Constance Hinton and
Maude Holmes. 132 pages.

Stoughton, Mich.—A seed store has
been opened here by E. K. Collins.

SEEDS, BULBS, PLANTS

AND

Florists' Necessities

AMERICAN BULB CO.

172 N. Wabash Ave., Chicago, Ill.

Dwarf Gladiolus

DWARF DOUBLE PEARL TUBER-ROSES. Special prices on application.

CALADIUM ESCULENTUM BULBS.

LILIUM MULTIFLORUM, 7 to 9, 9 to 10 and 10 to 11. Attractive prices on application.

LILIUM FORMOSUM, 7 to 9, 9 to 10 and 10 to 11. (Black stem.)

Please tell us how many you can use and we shall make prices accordingly.

Selected strains of Ageratum, Alyssum, Aster, Begonia Erfordi, Calendula Meteor, Prince of Orange, Candytuft, Celosia, Centaurea, Cobaea scandens, Cosmos, Gypsophila, Lobelia, Petunia, and Verbena. Special prices on the above on application.

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Careful Seed Growers For
99 Years

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To Florists and Market Gardeners
BALTIMORE, MD.

KEYSTONE SNAPDRAGON

Best Winter flowering Pink Snapdragon on the market. Per pkt., \$1.00; 6 pkts. for \$5.00.

S. S. SKIDELSKY & CO.
PHILADELPHIA, PA.

My new Price List of
WINTER-ORCHID-FLOWERING SWEET PEA SEED

Has been mailed. If you have not received a copy, send me postal. Part of new crop will be ready early in July.

ANT. C. ZVOLANEK
Sweet Pea Ranch Lompoc, Cal.

**GENUINE BALCH'S FILLBASKET
TOMATO SEED**

Greenhouse Grown from selected plants
Packet, \$1.00; 6 packets, \$5.00

WILLEY'S FARM
EAST PATCHOGUE, LONG ISLAND, N. Y.

READY NOW Buddleia Farquharii

This new Winter-flowering Lilac was raised in our nurseries and is the first authentic hybrid in the genus. The flowers are pale pink, delightfully fragrant and are borne in long, cylindrical, tail-like clusters. It is of easy culture, flowers during December and January and is valuable for conservatory and house decoration and as a cut-flower.

Each, \$1.00; doz., \$10.00; per 100, \$75.00

Wholesale Prices on Application

R. & J. FARQUHAR & CO., Boston, Mass.

LEONARD'S SEEDS

and SEED SERVICE

FOR SALE BY

LEONARD SEED COMPANY, Chicago, Ill.

LILIUM GIGANTEUM

NEW CROP NOW READY.

	Per 100	Per 1000
7 to 9 in. (300 bulbs to case)...	\$5.50	\$50.00
8 to 9 in. (250 bulbs to case)...	7.00	65.00
8 to 10 in. (225 bulbs to case)...	9.00	80.00
9 to 10 in. (200 bulbs to case)...	10.00	95.00

A. HENDERSON & CO.

211 N. State St., Chicago.

Burpee's Seeds PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT

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SEEDS, BULBS AND IMPLEMENTS
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Reselected Strains in Seeds.
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SPECIAL OFFER

LILIUM FORMOSUM

8/11, 225 to a case.....	\$80.00 per 1000
9/10, 200 to a case.....	\$5.00 per 1000
11/13, 100 to a case.....	15.00 per case
LILIUM FORMOSUM—Black Stem	
8/10, 200 to a case.....	\$80.00 per 1000
9/10, 180 to a case.....	90.00 per 1000
11/13, 100 to a case.....	16.00 per case

Write for Complete Stock Circular.
SATISFACTION GUARANTEED.

**LILIUM FORMOSUM
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Prices on Application. Write for 1916
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47-54 North Market St., Boston, Mass.

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166 W. 23rd St., NEW YORK

GARDEN SEED

BEEF, CARROT, PARSNIP, RADISH and
GARDEN PEA SEED in variety; also other
items of the short crop of this past season,
as well as a full line of Garden Seeds, will
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82 Dey St., NEW YORK and ORANGE, CONN.

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Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

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Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address Dardsflor.

DAVID CLARKE'S SONS

Deliver orders from any part of the country to
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Or OUT-GOING STEAMERS

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Bronaugh, Mo.—J. H. Roberts

Chicago—Clark St. Posey Shop, 5225
No. Clark St.

Buffalo, N. Y.—Lenox Flower Shop,
247 Delaware avenue.

Hartford, Ct.—J. Albert Brodribb,
succeeding New York Floral Co.

Augusta, Me.—Geo. W. Merrill, 221
Water street, succeeding Augusta
Flower Shop.

Los Angeles, Cal.—C. E. Wooden,
8th and Figueroa streets, succeeding
Abbey Flower Shop.

NEWS NOTES.

Kansas City, Mo.—St. Mary's Greenhouses have been purchased by C. W. Lemon and L. F. Clive.

Dayton, O.—Mrs. E. M. Phebus, Rural Route No. 14, has leased her greenhouses to Wm. Hardert.

West Hartford, Ct.—Carl A. Carlstrom has purchased the greenhouses and 23 acres of land on South Main street from the Rose Hill Floral Co.

Scranton, Pa.—Members of the Scranton Florists' Club followed their usual custom on McKinley Day and placed a wreath of carnations on the bust of McKinley on the Federal building lawn at Washington avenue and Linden street.

Belfast, Ire.—Alex. Dickson & Sons, Ltd., have completed and moved into their new and extensive premises which will be known as "Hawmark Buildings." It is a five story structure with a frontage of 52 feet of much architectural beauty and elegant appointments.

New Haven, Conn.—A. P. Horne, of Manchester, N. H., was elected president of the New England Nurserymen's Association at the closing session of its annual convention here January 30. Other officers chosen include: Secretary D. A. Clarke, Fiskville, R. I.; treasurer, V. A. Vanicek, Newport, R. I.

Philadelphia—Mark L. Ruck, late of Binghamton, N. Y., a prominent and experienced man in the retail flower business, has taken charge of the Ross establishment at 60th and Market St., which has lately been rebuilt and converted into one of the most up-to-date flower stores. Many thousands of dollars have been spent in making this old store the youngest on the map and a visit to same will be worth while to note all the improvements and congratulate Mr. Ross and greet the new manager.

G. E. M. STUMPP

761 Fifth Ave.

NEW YORK CITY

Member Florists' Telegraph Delivery Asso.

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High Grade Cut Blooms**

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At your service to deliver Flowers
or Designs on Order by Tele-
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Reliable Service.

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Prompt Auto Delivery
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Deliveries to Steamers and all Eastern Ports

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5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

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915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to
any address in Washington.
Stock and Work First Class

Orders Filled Day or Night for
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Complete Stock. Regular discount to Trade.
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Flowers of Every Kind in Season

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Telephones 1501 and L 1532.
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OMAHA, NEB.

S. A. ANDERSON
440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
Stock and prompt deliveries in BUFFALO,
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK
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HIGH GRADE PLANTS
For Retail Stores a Specialty
ASK FOR LIST
THOMAS ROLAND. Nahant, Mass.
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HARRY L. RANDALL, Proprietor.
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Flowers by Telegraph

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and properly
filled and delivered.

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Albany, N. Y.—The Rosery, 23 Steuben St.
Albany, N. Y.—William C. Gloeckner, 97 State St.
Boston—Thos. F. Galvin, 1 Park St.
Boston—Penn the Florist, 124 Tremont St.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Cleveland, O.—Adam Graham & Sons, 5523 Euclid Ave.
Cleveland, O.—Knoble Bros., 1836 W. 25th St.
Cleveland, O.—The Smith & Feters Co., 735 Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Ave.
Houston, Tex.—Kerr, The Florist.
Kansas City, Mo.—Samuel Murray, 1017 Grand Ave.
Los Angeles, Calif.—Howard & Smith, 853 So. Olive St.
New London, Conn.—Reuter's.
New York—J. H. Small & Sons, 505 Madison Ave., at 52d St.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 611 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—A. T. Bunyard, 413 Madison Ave., at 48th St.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Max Schilling, 22 W. 59th St.
New York—G. E. M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 48th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Passaic, N. J.—Edward Seery.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave. N.
St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
Tarrytown-on-Hudson, N. Y.—F. R. Pier-son Co.
Toronto, Can.—J. H. Dunlop, 8-10 West Adelaide St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—F. H. Kramer, 915 F St., N. W.
Washington, D. C.—George H. Cooke, Connecticut Ave. and L St.
Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop 3 Pleasant St.

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Howard & Smith
853 SO. OLIVE ST.
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Every Order sure to receive
prompt and careful attention.

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We cover the territory between
New Haven and Providence
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FRED C. WEBER
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TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

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8-10 West Adelaide St. - TORONTO, ONT.
ALBANY, N. Y.

EYRES
Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

106 STATE STREET, ALBANY, N. Y.

"THE HOME OF FLOWERS"

The largest cut flower store in America.
Orders for the TWIN CITIES and for all
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tention

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The Park Floral Co.
J. A. VALENTINE, Pres.

Members Florists' Telegraph Delivery.

DENVER, COLORADO



KERR ORDERS FOR TEXAS
HOUSTON, TEXAS
The Florist Member F.T.D. Association

NEWS ITEMS

BOSTON

Weis, the florist, with store on Hyde Park avenue in the new Dana block, has discontinued his business here.

H. Barrows, of Brockton, Mass., has taken charge of a large private estate in Florida and the business is now being handled by R. B. Frost.

The parents of Miss Sadie Mitchell have announced her engagement to Adrian F. Kommers, of Newtonville. Miss Mitchell has been the head bookkeeper for Henry M. Robinson & Co. for nearly two years.

Prof. Arno H. Nehrling of the Massachusetts Agricultural College gave an illustrated lecture in Horticultural Hall on Saturday, Feb. 3. His subject was "Perennials We Should Grow." There was an audience of between four and five hundred present.

The carnation party leaving Boston for Indianapolis got their flowers, about 3,000 blooms in all, there in perfect order and brought home fourteen 1st prizes, ten 2nd prizes and one certificate of merit. C. S. Strout, out of eight entries got six 1st and two 2nd, and C. S. Goddard made an equal capture. They each took along about 800 blooms. "That's going some."

On Friday, Feb. 16, a garden conference of women, Mrs. Joseph S. Leach, chairman, will be held in Horticultural Hall. At 10.30, W. N. Craig will speak on "The Home Vegetable Garden," with a discussion following, led by Miss Helen Holmes. Mrs. Effie S. Nowers will speak on "The Home Fruit Garden and Apple Orchard," with Miss Sarah Brassill as leader of the discussion. "Making Use of the Vacant Lot for Gardens" will be the subject of an address by Wilfrid Wheeler. At the afternoon session Loring Underwood will give a message on the planning of the home grounds through his lecture, "Old New England Gardens," illustrated by the new process of direct color photographs used as lantern slides. Miss Louise Hetzer, of the Lowthorpe School of Landscape Architecture for Women at Groton, will speak on "Succession of Bloom in the Flower Garden." Miss Annie Burke, director of boys' and girls' agricultural work in Plymouth County, will speak on "Children's Home and School Gardens," and several pupils will give an account of their garden experiences. All women interested in these subjects are invited to attend and to take part.

WASHINGTON, D. C.

Mr. and Mrs. William F. Gude and George W. Hess were members of the delegation which recently visited Monticello to look over the property with a view to acquiring it by purchase for the purpose of making it a second Mount Vernon.

The mountain laurel was last week advocated by a delegation of women as the national flower. The House Committee on Library had before it the bill providing for such recognition. W. F. Gude, for the S. A. F., who was the first witness, told the members of

having inserted a request in the florists' trade papers for an expression of opinion and that with the exception of one, all the responses favored the mountain laurel.

CHICAGO.

A new flower store has been opened by Mrs. Marie Smith & Co., at 5225 N. Clark St., under the name of the Clark St. Posey Shop.

J. J. Mohrley has purchased the store known as the Fisher Flower Shop at 23 S. Crawford Ave., and will change the name to the Mohrley Flower Shop.

No one is complaining of results as the January sales are footed up and it is fair to infer that the month averaged well. John Michaelson states that the E. C. Amling Co.'s sales were \$7400 ahead of those of last January.

R. Schiller of the Gift Shop learns that his brother-in-law in El Paso, Tex., is critically ill and that his demise may occur at any moment, consequently no date will be set at present for his wedding, which was scheduled for this month.

A telegram has been received announcing the safe arrival in southern California of E. C. Amling and H. N. Bruns and their families, where they will spend the balance of the winter. With the mercury away down in Chicago, friends are a bit envious of their escape.

The question of charging customers for boxes and packing has been revived with the advance in the cost of lumber, paper, etc., and was the main object of a meeting of wholesalers on Jan. 30. The subject was not decided and after discussion, was left to another meeting, Feb. 6.

NEWS NOTES.

Cromwell, Conn.—Ground has been broken on Main street for a building to be used as a rooming house to take care of the large number of out-of-town young men now employed at the greenhouses. This spring a new building is to be erected to be used as a clubhouse to give the men a place for social recreation, something which the town is lacking.

New York—Mr. E. R. Storey has been appointed sales manager of the Metropolitan Material Co., this to take effect March 1st, 1917. On and after that date, they will move to their new ten acre plant at Flushing and Woodward avenues, Brooklyn, New York. A special announcement to the trade from the Metropolitan Material Co. will be made later.

Middletown, Conn.—There has just been completed at the State hospital for the insane a greenhouse, 150 feet long, which was made by the patients under the direction of a superintendent. The grounds are to be graded about it and it will be one of the beauty spots on the hill. The cost was little more than for the material and the effort itself was of much value to the patients.

During Recess

Gardeners' and Florists' Club of Boston.

Wednesday night, February 8, was a gala occasion for the members of the Gardeners' and Florists' Club of Boston and their ladies, for on that evening they celebrated, to the number of 250, the 30th anniversary of the Club's birth. Horticultural Hall presented a beautiful and inspiring picture. The tables and stage were lavishly adorned with flowers of rare loveliness. During the feast, there was plenty of stirring music by the orchestra. President Methven, although suffering from an attack of grippe, was right on his job and after a brief address of welcome and congratulation called upon A. P. Calder to fill the post of toastmaster, and it is almost superfluous to say here how well that finished master of oratory fulfilled his duties.

The first speaker was President R. M. Saltonstall, of the Massachusetts Horticultural Society, who captured all hearts with the eloquent sincerity of his presentation of the society's cordial good wishes and his appeal for a generous support for that time-honored institution in the plans for its work of the future and special activities of the coming year. He outlined the ambitious program of exhibitions now laid out and reminded his audience that the centennial of the Massachusetts Horticultural Society is now but twelve years distant.

Wm. J. Stewart, being next called upon, as the Club's first president entertained with some amusing reminiscences of the early days of the organization.

Secretary W. N. Craig and Vice-President A. K. Rogers were the only other speakers. Mr. Craig was enthusiastic as ever in his comment on the activities of the Club and aroused his hearers to a high pitch by offering a resolution of support to be expressed in a telegram to President Wilson in the present international emergency. The vote was unanimous.

Between the speeches there was singing by Miss S. MacPherson, Mr. James Singer and Mel. Eastman, and piano music by Miss Lewis. "My country 'tis of Thee" was then sung, after which came the dancing, twelve numbers on the program, under the direc-

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see how much you can do with a little money when you go straight to
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New York Florist Bowlers.

Scores recorded Thursday evening,
February 1.

Fenrich	199	168	163
Miesem	181	171	173
Siebrecht	162	142	143
Suzuki	137	123	106
Ford	175	169	156
Scott	168	157	158
Kakuda	191	160	134
Jacobsen	197	168	183

PERSONAL.

Mr. and Mrs. Frank Millang, of New York, are in Florida for a stay of several weeks.

Percy B. Rigby, manager of the New York store of the S. S. Pennock Meehan Co., is sojourning for a few weeks at Palm Beach, Fla.

Frank A. Waugh, head of the department of horticultural and landscape gardening at the Massachusetts Agricultural College, has been named as consulting landscape architect of the United States Forest Service. Professor Waugh will work under the direction of Chief Forester Graves, and in April will start on a trip of inspection through Idaho, Montana, Wyoming, Utah and Colorado. He is a native of Wisconsin, and was educated mainly in Kansas, although he did his final work in horticulture specialization at Cornell University. He has been a success as a teacher at the college at Amherst, and expects to return there to teach after his advisory work and touring are done. Excellent books from his pen have widened his area of influence.

A CORRECTION.

In the note about Sweet Pea Buds dropping, by Wm. Sim, in our issue of last week, the temperature figures as given were reversed through a clerical error. They should read, "with sun out, 67; if cloudy, 58 to 60."

Pittsburgh—Owing to the intense cold the Ludwig Floral Co. have had \$1,000 worth of palms (funeral work) held up in various North Side homes.

N. Y. STATE FEDERATION.

The New York State Federation of Horticultural Societies and Floral Clubs will meet at Ithaca, February 14, in connection with the tenth annual farmers' week at Cornell. According to the advance announcement the program will include five speakers, an informal luncheon, and a business meeting of the federation.

E. A. White will discuss "Roses in Greenhouses and Their Feeding," to be followed by David Lumsden who will talk on orchids and orchid breeding. "How to Make Home Grounds Attractive," will be the subject of a lecture by Henry Hicks of Westbury, from which the meeting will adjourn for an informal luncheon at noon. The afternoon program includes: "Garden Roses and Their Culture," by A. C. Beal; "Diseases of Roses," by L. M. Massey; a business meeting of the federation will take place at 4 o'clock.

In addition to this program of the federated clubs, the department of floriculture of the college has arranged for Tuesday, Thursday and Friday of farmers' week a program that includes ten lectures on floral subjects, demonstrations of methods of work in greenhouses, floral decoration and other phases of plant work. On Tuesday and Wednesday, will be exhibits of student's work in flower arrangement, also of roses, carnations, violets, sweet peas, and other florist crops exhibited by specialists in cut-flower production in the eastern states. Round table discussions on flower growing will be featured in the program.

CONNECTICUT HORTICULTURAL SOCIETY.

Carnation Night had been announced for last Friday night's meeting and John F. Huss, exhibited ten varieties, and Warren S. Mason, five varieties. The judges awarded a first-class certificate to the collection of Mr. Huss, and to that of Mr. Mason a cultural certificate. Francis Roulier and Warren S. Mason gave a talk on the cultural principles, emphasizing the fact that the plants must be well nourished. President Hollister will name a committee to plan the June flower show.

ALFRED DIXON, Secy.

OBITUARY.

Morris K. Pease.

Morris K. Pease, a well-known market gardener, died at his home, Enfield street, Thompsonville, Ct., on Jan. 28, aged 73 years. He is survived by his widow and two sons.

John T. Ellerbrecht.

John T. Ellerbrecht, formerly a well-known horticulturist, died in the Flushing Hospital, Flushing, N. Y., January 30, of injuries received in an accident. He was 54 years old.

James A. Fletcher.

James A. Fletcher, market gardener and florist for a great many years, died at his home on Mt. Pleasant St., Farmington, N. H., February 1st, and is survived by two daughters and one son.

F. J. Lake.

F. J. Lake, one of the oldest florists of Boston, died at his home in Wellesley Hills, Mass., Jan. 27, aged 84 years. He was one of the first stall holders in the old Park street flower market. His son, A. G. Lake, has been managing the business for many years.

NEW CORPORATIONS.

Selma, Ala.—Dallas Seed & Produce Co., capital stock, \$6,000. Incorporators, G. B. Smith, L. Erlenbach, L. Burny and O. G. Kelly.

Lyons, N. Y.—Ganargua Farms Co., garden truck, flowers, bulbs, etc., capital stock, \$12,000. Incorporators, W. G. David, C. Coffey and J. Snyder.

Wilmington, Del. — Green Ridge Heights Orchard Co., nurserymen, capital stock, \$50,000. Incorporators, F. D. Buck, George W. Dillman and M. L. Horty.

New Haven, Ct.—New England Land, Produce & Nursery Co., landscape gardening and nursery stock, capital stock, \$50,000. Incorporators, J. N. Nettleton, Walter F. Good and H. B. Markle.

Editor HORTICULTURE:

I like your editorial policy. It deserves the support of the entire trade."

New York.

M.

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Fancy \$20.00 per 100
Firsts \$15.00 per 100

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30 East Randolph Street, CHICAGO



WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

Roses	BOSTON Feb. 8		ST. LOUIS Jan. 29		PHILA. Feb. 5	
	to	to	to	to	to	to
Am. Beauty, Special	40.00	to 60.00	40.00	to 50.00	60.00	to 75.50
" " Fancy and Extra	15.00	to 30.00	30.00	to 40.00	30.00	to 50.00
" " No. 1 and culls	6.00	to 10.00	10.00	to 20.00	8.00	to 25.00
Russell, Euler, Mock	4.00	to 15.00	8.00	to 25.00	6.00	to 25.00
Hadley	4.00	to 30.00	5.00	to 12.00	6.00	to 20.00
Arenberg, Hoosier Beauty	3.00	to 10.00	4.00	to 10.00	6.00	to 15.00
Ward	3.00	to 12.00	6.00	to 12.00	5.00	to 10.00
Killarney, Radiance, Taft	3.00	to 15.00	4.00	to 10.00	6.00	to 15.00
Ophelia, Sunburst, Hillingdon	5.00	to 15.00	8.00	to 15.00	6.00	to 15.00
Kay	6.00	to 15.00	.....	.....	6.00	to 20.00
Carnations	2.00	to 4.00	2.00	to 4.00	3.00	to 5.00
Cattleyas	35.00	to 50.00	50.00	to 60.00	35.00	to 60.00
Dendrobium formosum	.....	to 50.00	.....	.....	35.00	to 50.00
Lilies, Longiflorum	8.00	to 12.00	.....	to 12.50	10.00	to 12.50
Lilies, Speciosum	8.00	to 10.00	.....	.....	.....	.....
Callas	12.00	to 18.00	10.00	to 15.00	12.00	to 15.00
Lily of the Valley	4.00	to 6.00	.....	.....	3.00	to 5.00
Snopdragon	2.00	to 8.00	.....	.....	4.00	to 16.00
Daffodils	3.00	to 4.00	.....	to 4.00	3.00	to 4.00
Narcissi, Paper White	2.00	to 3.00	.....	to 3.00	2.00	to 3.00
Roman Hyacinths	3.00	to 4.00	.....	to 2.00	2.00	to 3.00
Freesia	3.00	to 4.00	.....	.....	2.00	to 6.00
Tulips	4.00	to 5.00	3.00	to 4.00	2.00	to 4.00
Calendulas	2.00	to 4.00	.....	.....	3.00	to 4.00
Sweet Peas	1.00	to 2.00	.....	.....	.50	to 2.00
Violets	.40	to .60	.50	to 1.50	.25	to .75
Marguerites	1.00	to 3.00	.....	.....	.50	to 2.00
Gardenias	20.00	to 30.00	.....	.....	5.00	to 25.00
Adiantum	.....	to 1.00	.....	.....	1.00	to 1.50
Smilax	12.00	to 20.00	.....	to 15.00	15.00	to 20.00
Asparagus Plumosus, & Spreng. (100 Bchs.)	25.00	to 35.00	25.00	to 35.00	25.00	to 50.00

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Flower Market Reports

BOSTON The long expected break in prices arrived this week accompanying an increase in stock generally. Short roses have fallen off one half, both in price and sales. Better qualities were not so hard hit, but an appreciable decrease in volume of sales was noted here also. White carnations have stood up well under the sharp decline, neither falling off in quality or amount. Reds, however, are slightly inferior to those seen hitherto and not so much in demand. The market is slowly being filled with its usual spring specialties. English primroses are in abundance, and apparently have made a decided hit with the public. Paper whites have been rather drowsy all week. Tulips of excellent grade are much in demand and have enjoyed stiff prices. Calendulas and wall flowers are being sold in meager quantities at a low price.

For two weeks past **BUFFALO** business has been rather uneven, one day a heavy demand for stock and the next day business only normal. Design work was in demand for a few days, which kept the carnations and other stock for such use cleaned up. Roses are not too plentiful, especially shorts, while medium continue somewhat scarce and prices have been firm. Lilies are on the short side but the bulbous stock is coming in more plentiful each day. There are fine mignonette, orchids, sweet peas, etc. Beauties are coming in good quality and prices rule high.

The extremely low temperature cut down sales on the first Saturday in February. A genuine blizzard developed and both local and out-of-town trade showed a decided tendency to await its departure. Monday had not changed conditions very decidedly, but there was some improvement, especially in shipping trade. Stock was naturally kept back by the low temperature and cloudy days so prices varied little. There are more carnations just now than the market needs and some of the largest consigners are now cutting

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

	CINCINNATI Feb. 5		CHICAGO Feb. 5		BUFFALO Feb. 5		PITTSBURG Jan. 22	
Roses								
Am. Beauty, Special.....	50.00	to 60.00	40.00	to 50.00	50.00	to 50.00	.....	to 50.00
" " Fancy and Extra.....	30.00	to 40.00	30.00	to 40.00	20.00	to 35.00	30.00	to 40.00
" " No. 1 and culls.....	8.00	to 25.00	5.00	to 15.00	8.00	to 6.00	6.00	to 20.00
Russell, Euler, Mock.....	.....	to	6.00	to 25.00	8.00	to 15.00	10.00	to 20.00
Hadley.....	.....	to .....	.....	to	5.00	to 15.00	.....	to
Arenberg, Hoosier Beauty.....	6.00	to 15.00	.....	to	6.00	to 15.00	.....	to
Ward.....	6.00	to 10.00	6.00	to 12.00	4.00	to 6.00	8.00	to 12.00
Killarney, Radiance, Taft.....	6.00	to 12.00	4.00	to 10.00	4.00	to 15.00	4.00	to 15.00
Ophelia, Sunburst, Hillingdon.....	6.00	to 18.00	4.00	to 12.00	4.00	to 12.00	10.00	to 20.00
Kay.....	.....	to .....	.....	to	10.00	to 15.00	.....	to
Carnations	3.00	to 4.00	2.00	to 4.00	3.00	to 5.00	3.00	to 4.00
Cattleyas	50.00	to 60.00	40.00	to 50.00	40.00	to 50.00	40.00	to 50.00
Dendrobium formosum.....	.....	to .....	.....	to .....	.....	to	30.00	to 40.00
Lilies, Longiflorum	12.50	to 15.00	10.00	to 12.50	10.00	to 12.00	.....	to 15.00
Lilies, Speciosum	6.00	to 10.00	.....	to	4.00	to 6.00	.....	to
Callas	10.00	to 12.50	8.00	to 12.00	8.00	to 12.00	.....	to
Lily of the Valley.....	.....	to 7.00	5.00	to 6.00	6.00	to 7.00	.....	to 6.00
Snapdragon	4.00	to 6.00	6.00	to 8.00	5.00	to 10.00	4.00	to 10.00
Daffodils	3.00	to 5.00	3.00	to 4.00	2.50	to 3.00	4.00	to 6.00
Narcissi, Paper White	3.00	to 4.00	2.00	to 3.00	2.00	to 3.00	3.00	to 4.00
Roman Hyacinths	2.00	to 3.00	3.00	to 5.00	2.00	to 3.00	.....	to
Freesia	2.00	to 4.00	3.00	to 4.00	3.00	to 5.00	3.00	to 4.00
Tulips	4.00	to 5.00	3.00	to 4.00	2.50	to 4.00	3.00	to 5.00
Calendulas	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00	3.00	to 6.00
Sweet Peas.....	.75	to 1.50	1.00	to 2.00	1.00	to 2.00	2.00	to 3.00
Violets.....	.75	to 1.00	.50	to 1.00	.40	to .75	.75	to 1.25
Marguerites.....	.75	to 1.00	.....	to 1.00	1.00	to 2.00	2.00	to 3.00
Gardenias.....	.....	to	25.00	to 30.00	15.00	to 25.00	.....	to
Adiantum.....	.....	to 1.00	.....	to 1.00	1.00	to 1.25	1.00	to 1.25
Smilax.....	.....	to 15.00	12.50	to 20.00	15.00	to 18.00	.....	to 15.00
Asparagus Plu. & Spren. (100 Bhs.)	25.00	to 50.00	25.00	to 50.00	25.00	to 50.00	30.00	to 50.00

heavily. Bulbous stock is much in evidence on all the counters and its bright colors and good keeping qualities are adding to its popularity as the season advances. There are enough Beauty roses to supply the regular demand. Single violets are selling well and many double ones are moving but at a much lower figure. All kinds of roses are in good supply and they generally move each day at satisfactory prices. A good many lilies are selling now. Lily of the valley is scarce but freesia, its nearest approach to a rival is increasing daily, while Roman hyacinths also help out. There is a large quantity of good stevia seen in some houses and with pussy willows are much used with the large flowers. Some excellent green is coming from the South as well as being cut locally.

Notwithstanding several **NEW YORK** wild blizzard days when supply ran meagre on some important items and stiff prices were maintained temporarily, yet the very evident tendency of the market is towards a surplus condition, lower values and freer sales. Spring influences are in the air and will soon

change the aspect of scarcity to one of superabundance. The variety of flowers offered in the wholesale district has never before been equaled and the quality leaves little more to ask for. Bulbous stock is getting a little troublesome.

PHILADELPHIA Conditions remain about the same as reported during the past three weeks. Roses are still scarce and the carnations are having their inning. Acacia pubescens is among the new items to be seen around; also white camellias. Snapdragon is very fine now and meeting with much favor.

PITTSBURGH Stock has again shortened up considerably and it is often impossible to supply orders in full. This is particularly true of long-stemmed roses. On Monday one retail firm had an electric fan in front vigorously fanning warm air on the windows while here and there the entire length of the long store room were tall copper receptacles filled with burn-

(Continued on page 188)

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WHOLESALE ONLY

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WHOLESALE FLORISTS, 34 West 28th St., New York

Telephones 1664 / 5991 Madison Square

CONSIGNMENTS SOLICITED

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Feb. 3 1917		First Half of Week beginning Feb. 5 1917	
American Beauty, Special	50.00	to 60.00	50.00	to 60.00
" " Fancy and Extra	25.00	to 35.00	30.00	to 40.00
" " No. 1 and culls	6.00	to 15.00	6.00	to 15.00
Russell, Euler, Mock	6.00	to 20.00	6.00	to 20.00
Hadley	10.00	to 50.00	6.00	to 50.00
Arenberg, Hoosier Beauty	4.00	to 12.00	0.00	to 15.00
Ward	5.00	to 12.00	6.00	to 12.00
Killarney, Radiance, Taft	5.00	to 10.00	6.00	to 12.00
Ophelia, Sunburst, Hillingdon	6.00	to 12.00	6.00	to 15.00
Kay	5.00	to 12.00	6.00	to 12.00
Carnations	3.00	to 5.00	2.00	to 4.00

WALTER F. SHERIDAN

Wholesale Commission Dealer in

CHOICE CUT FLOWERS

133 West 28th Street, New York

Telephone—3532-3533 Madison Square

JOSEPH S. FENRICH

WHOLESALE FLORIST

Methods Fair and Liberal. Relations
Satisfactory and Profitable.

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Incorporated

Wholesale Commission Florists

Orchids, Gardenias and Many Unusual
Flowers of Quality

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NEW YORK

HENRY M. ROBINSON CO. OF NEW YORK

WHOLESALE FLORISTS

55-57 West 26th Street

Telephones, 13—8510 Madison Square

Consignments Solicited

MAURICE L. GLASS, Treasurer

Flower Market Reports

(Continued from page 187)

ing charcoal blocks. The Pittsburgh Cut Flower Company, which heats entirely with natural gas, suffered considerably for several days.

Prices generally have remained high and stock in all lines is still scarce. There has been a heavy demand for roses and carnations. Sweet peas are of excellent quality. There are plenty of violets but they are moving very slowly. The supply of orchids has increased. Bulb stock so far has been scarce, due in part to late importations, and is not of very good quality. Orders for snapdragon in many instances must go unfilled and the price is \$2.50 per dozen at wholesale. Gardenias show improvement and are in fair demand.

VISITORS' REGISTER.

Pittsburgh—A. J. Rickards, representing Roman J. Irwin, New York City; M. Fuhlbruegge, Chicago.

Boston—Julius Roehrs, Rutherford, N. J.; Prof. A. H. Nehrling, Amherst, Mass.; W. A. Manda, South Orange, N. J.; G. Baldwin, Mamaroneck, N. Y.

Philadelphia—S. Suzuki and C. W. Scott, Yokohama Nursery Co., New York City; J. Horace McFarland, Harrisburg, Pa.; Arthur Herrington, Madison, N. J.; John C. Bodger, Los Angeles, Cal.

Washington—C. H. Frericks, F. R. Pierson Co., Tarrytown, N. Y.; Alex A. Abramowitz, rep. Carbone, Boston, Mass.; A. K. Hatki, rep. Ratcliffe & Tanner, Richmond, Va.; Fred-eric W. O. Schmitz, Prince Bay, N. Y.; H. J. Anderson, Cromwell, Conn.

Chicago—Mr. and Mrs. Roy Wilcox, Council Bluffs, Ia.; W. H. Kruse, St. Louis, Mich.; Hans Jepsun, Crown Point, Ind.; W. H. Elliott, Boston, Mass.; James Novak of Stuppy Floral Co., St. Joseph, Mo.; Paul Berkowitz, rep. H. Bayersdorfer & Co., Phila.; R. J. Wentworth, Minneapolis, Minn.; C. C. Pollworth, Milwaukee, Wis.; Mr. and Mrs. S. S. Skidelsky, Phila., Pa.; John A. Evans, Richmond, Ind.; W. J. Pilcher, St. Louis, Mo.; Mr. and Mrs. J. J. Windler, St. Louis, Mo.

At the annual meeting of the Pennsylvania Nursermen's Association, held in the Commonwealth Hotel, Harrisburg, Pennsylvania, Wednesday, January 24th, the following officers were elected:

President, Bertrand H. Farr, Wyomissing; vice-president, Adolph Muller, Norristown; secretary, Henry T. Moon, Morrisville; treasurer, Thomas Rakestraw, Kennett Square. Executive Committee: Thomas B. Meehan, Dresher; James Krewson, Cheltenham; Charles L. Thomas, King of Prussia. Legislative Committee: William Warner Harper, Chestnut Hill; Thomas B. Meehan, Dresher; George Achelis, West Chester; J. W. Root, Manheim; Edwin Thomas, King of Prussia; Adolph Muller, Norristown; Thomas Rakestraw, Kennett Square.

Send Flower Consignments to

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Wholesale Florist
116 West 28th St., NEW YORK CITY

Shipping Orders Carefully Filled.
Correspondence solicited.
Telephone, Farragut 2245.

PATRICK WELCH, WHOLESALE FLORIST

262 DEVONSHIRE STREET, BOSTON, MASS.

American Beauties, Orchids, Valley, Carnations. All the novelties in the Cut Flower Market furnished on short notice. Prices quoted on application. No retail orders accepted. Flowers shipped out of Boston on early trains.

STORE OPEN FOR BUSINESS AT 6 A. M. TELEPHONE MAIN 2698.

HERMAN WEISS WHOLESALE FLORIST

Can handle shipments of growers' product satisfactorily Would like to hear from Growers of Snapdragons and Sweet Peas, etc., for the New York trade.

106 West 28th St., NEW YORK
Tel. Farragut 3066

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Feb. 3 1917		First Half of Week beginning Feb. 5 1917	
Cattleyas	20.00	to 50.00	20.00	to 50.00
Dendrobium formosum .....	.....	to 50.00	.....	to 50.00
Lilies, Longiflorum	10.00	to 12.00	10.00	to 12.00
Lilies, Speciosum	4.00	to 8.00	4.00	to 8.00
Callas	12.00	to 18.00	12.00	to 18.00
Lily of the Valley	3.00	to 5.00	3.00	to 5.00
Snapdragon	3.00	to 8.00	3.00	to 8.00
Daffodils	4.00	to 6.00	4.00	to 6.00
Narcissi, Paper White	2.00	to 3.00	2.00	to 3.00
Roman Hyacinths	2.00	to 4.00	2.00	to 4.00
Freesia	2.00	to 4.00	2.00	to 4.00
Tulips	2.00	to 6.00	2.00	to 4.00
Calendulas	3.00	to 6.00	3.00	to 6.00
Sweet Peas	1.00	to 3.00	1.00	to 3.00
Violets .....	.40	to .60	.35	to .60
Marguerites	1.00	to 2.00	1.00	to 2.00
Gardenias	8.00	to 25.00	8.00	to 25.00
Adiantum .....	.75	to 1.00	.75	to 1.00
Smilax	15.00	to 20.00	15.00	to 20.00
Asparagus Plumosus, & Spreng (100 bunches)	20.00	to 35.00	20.00	to 35.00

A GOLD MEDAL is not expected by us for doing our duty by our consignors and customers
We have 22 years' experience behind us

FANCY GRADE ORCHIDS, SEPTEMBER MORN, AMERICAN BEAUTY, PRIMA DONNA AND ALL OTHER ROSES, LILIES, CARNATIONS, VIOLETS, ASPARAGUS AND SMILAX and all other Seasonable Flowers.

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New York

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NO DESIGNS MADE UP

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Flowers Sold on Commission

Consignments of
Good Stock Solicited

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118 West 28th Street

167 & 3058 Farragut

NEW YORK

Established 1888

Tel. 551 Farragut

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Wholesale Commission Florists

110 West 28th St., New York

We Solicit Consignments of New
England Grown Novelties.

Beechwood Heights Nurseries

Importers and Growers of

ORCHIDS

Cut Flowers of All the Leading Varieties
in their Season.

THOMAS YOUNG, Jr., Proprietor
BOUND BROOK, N. J.

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Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display Advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. Dysart, 40 State St., Boston.
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APHINE

Aphine Mfg. Co., Madison, N. J.
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APHIS PUNK

Nicotline Mfg. Co., St. Louis, Mo.
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ASPARAGUS

Asparagus Plumosus Seedlings, \$1.00 per 100, \$5.00 per 1000. Ready May 1st. COL-LINGDALE GREENHOUSES, Collingdale, Pa.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
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August Rolker & Sons, New York City.
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BASKETS

H. Bayersdorfer & Co., Philadelphia, Pa.
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Boston Floral Supply Co., Boston, Mass.

BAY TREES

BAY TREES. Write for wholesale price-list.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

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R. Vincent, Jr. & Sons Co.
White Marsh, Md.
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A. Leuthy & Co., Roslindale, Mass.
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BEGONIAS

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King Construction Co., North Tonawanda, N. Y.

"King Ideal" Boiler.

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Lord & Burnham Co., New York City.

Hitchings & Co., New York City.
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BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
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Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOX TREES

August Rolker & Sons, New York City.
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BOX TREES—Standards, Pyramids and Bush. Price list on demand.

JULIUS ROEHRS CO., Rutherford, N. J.

BULBS AND TUBERS

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Lillium Harrisii.
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French and Dutch Bulbs.
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Ralph M. Ward & Co., New York City.
French, Japan, Holland and Cold Storage Bulbs.
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R. & J. Farquhar & Co., Boston, Mass.
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Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
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Henry F. Michell Co., Philadelphia, Pa.
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Joseph Breck & Sons Corp., Boston, Mass.
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W. E. Marshall & Co., New York City.
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Arthur T. Boddington Co., Inc.,
New York City.
Bulbs and Roots.
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C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK BRANCH, 8-10 Bridge St.

CANNAS

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CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
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Cottage Gardens Co., Inc., Queens, N. Y.
Carnation Cottage Maid.

CARNATION STAPLES

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 1000 for 35c.; 3000 for \$1.00 post-paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

C. C. Pollworth Co., Milwaukee, Wis.
Chrysanthemum, Mrs. C. C. Pollworth.
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CHRYSANTHEMUMS

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William F. Kasting Co., Buffalo, N. Y.
"Hamburg Late White" Chrysanthemum.

Guttman & Raynor, Inc., New York City,
Or Frank Dinda, Farmingdale, N. Y.
Chrysanthemums—Alex Guttman, Blanche,
White Anemone, Elizabeth Yellow Anemone.

CYCAS

Boston Floral Supply Co., Boston, Mass.

DAHLIAS

Peony Dahlia Mrs. Frederick Grinnell.
Stock For Sale.
JOHN P. ROONEY, New Bedford, Mass.

ORDERS BOOKED ANY TIME

For Fall or Spring delivery. Wholesale and Retail. Send for Catalogue. NORTHBORO DAHLIA & GLADIOLUS GARDENS, J. L. Moore, Prop., Northboro, Mass.

NEW PAEONY DAHLIA

John Wanamaker, Newest, Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to
PEACOCK DAHLIA FARMS, Berlin, N. J.

DECORATIVE PLANTS

Julius Roehrs Co., Rutherford, N. J.
Choice Flowering and Foliage Plants.
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Robert Craig Co., Philadelphia, Pa.
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High Grade Plants for Retail Florists.
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F. R. Pierson, Tarrytown, N. Y.
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Scotti Ferns, 2½ in. pots.....\$5.00 per 100
" 3 in. pots..... 8.00 "
Boston " 2½ in. pots..... 5.00 "
ANTON SCHULTHEIS, College Point, N. Y.

FERTILIZERS

Pulverized Manure Co., Chicago, Ill.
Wizard Brand Cattle Manure.
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Boston Floral Supply Co., Boston, Mass.

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GERANIUMS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
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FOR SALE: 2000 S. A. Nutt out of 2½ in., ready for 3½ in., \$3.00 per hundred, \$25.00 per thousand. F. E. PALMER, INC., Brookline, Mass.

GLADIOLI

John Lewis Childs, Flowerfield, L. I., N. Y.
New Catalogue.
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J. M. Thorburn & Co., New York City.
Dwarf Gladiolus.
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CLEARANCE SALE OF GLADIOLUS.

In first, second and third sizes, also Bulb-lets: Pendleton, Niagara, Mary Fennell, Mrs. G. A. Moulton, Spring Song, Glorie, Lilian Morrissey, Ida Van, Francis King, Golden King. 13 quarts of Bulblets, including 4 quarts of Pendleton. Will close out the lot at a bargain. Write for prices to the OLD TOWN NURSERIES, So. Natick, Mass.

GLASS

Sharp, Partridge & Co., Chicago.
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Parshelsky Bros., Inc., Brooklyn, N. Y.
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Louis Cohen, New York City.
Window and Plate Glass.
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Greenhouse glass, lowest prices. JOHN-STON GLASS CO., Hartford City, Ind.

GLASS—6 x 8, 8 x 10, 10 x 12, 10 x 14, \$2.00 per box. Other sizes at factory prices. C. N. ROBINSON & BRO., Dept. 29, Baltimore, Md.

GLASS CLOTH

Turner Bros., Bladen, Neb.
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HAIL INSURANCE

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Lemon Oil Insecticide.
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Spraying Results Guaranteed.

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A. M. Davenport, Watertown, Mass.
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Lily Bulbs from Japan.
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NIKOTIANA

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August Rolker & Sons, New York City.
Holland Nursery Stock.
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Cottage Gardens Nurseries, Inc., Eureka, Calif.
Specialists in Specimen Stock for Landscape Work.
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NUT GROWING

The Nut-Grower, Waycross, Ga.
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In writing to Advertisers kindly mention Horticulture

ORCHID PLANTS

Beechwood Heights Nurseries,
Bound Brook, N. J.
Importers and Growers of Orchids.
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Julius Roehrs Co., Rutherford, N. J.
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PANSY AND VERBENA BASKETS
G. P. Read, Inc., New York City.
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PETUNIAS

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
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PEONIES

Peonies. The world's greatest collection.
1200 sorts. Send for list. C. BETSCHER,
Canal Dover, O.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.

PIPE AND FITTINGS.

Kroeschell Bros. Co., Chicago.
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King Construction Company,
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
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PLANTS AND CUTTINGS

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PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

PLANT AND BULB IMPORTS

Chas. Schwake & Co., New York City.
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August Rolker & Sons, New York City.
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McHutchison & Co., New York City.
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P. Ouwerkerk, Hoboken, N. J.
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New Red Rose, Donald MacDonald.
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P. Ouwerkerk, Hoboken, N. J.
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W. & T. Smith Co., Geneva, N. Y.
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A. N. Pierson, Inc., Cromwell, Conn.
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Bay State Nurseries, North Abington, Mass.
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August Rolker & Sons, New York City.
Hardy Roses.
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Robert Scott & Sons, Sharon Hill, Pa.
Agent for Alex. Dickson & Sons,
New Red Rose, Donald MacDonald.

Guttman & Raynor, Inc., New York City.
Rose Prima Donna (Mme. Paul Euler).

ROSES, CANNAS AND SHRUBS.
THE CONARD & JONES COMPANY,
WEST GROVE, PA.

SASH

STANDARD HOTBED SASH, with cross
bar, 85c. each; lots of 25 and over, 80c.
each. Satisfaction guaranteed or money
refunded. Glass 6 x 8, 8 x 10, 10 x 12 or
10 x 14, \$2.00 per box of 50 sq. ft.
C. N. ROBINSON & BRO., Dept. 20, Balti-
more, Md.

SCALECIDE

B. G. Pratt Co., New York City.

SEASONABLE PLANT STOCK

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
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SEEDS

Carter's Tested Seeds.
Seeds with a Pedigree.
Boston, Mass., and London, England.
For page see List of Advertisers.

Sutton & Sons, Reading, England.
Represented by
Winter, Son & Co., New York City.
Sutton's Seed Catalogue.

Joseph Breck & Sons, Boston, Mass.
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J. Bolgiano & Son, Baltimore, Md.
Tomato Seed.
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A. T. Boddington Co., Inc., New York City.
Choice Florists' Seeds for Early Sowing.
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Chas. Schwake & Co., New York City.
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Michell's Seed House, Philadelphia, Pa.
New Crop Flower Seed.
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W. Atlee Burpee & Co., Philadelphia, Pa.
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R. & J. Farquhar & Co., Boston, Mass.
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J. M. Thorburn & Co., New York City.
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Amt. C. Zvolanek, Lompoc, Cal.
Winter Flowering Sweet Pea Seed.
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S. S. Skidelsky & Co., Philadelphia, Pa.
Snapdragon.
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Kelway & Son, Langport, England.
Seeds, Selected Strains.
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W. E. Marshall & Co., New York City.
Seeds, Plants and Bulbs.
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August Rolker & Sons, New York City.
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Burnett Bros., 98 Chambers St., New York.
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Leonard Seed Co., Chicago, Ill.
Seeds and Seed Service.
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American Bulb Co., Chicago, Ill.
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Thomas J. Grey Co., Boston, Mass.
Seeds, Bulbs, Implements.
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Roman J. Irwin, New York City.
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S. D. Woodruff & Sons, New York City and
Orange, Conn.
Garden Seeds.
For page see List of Advertisers.

Fottler, Fisk, Rawson Co., Boston, Mass.
Seeds for the Florist

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. LAGER
& HURRELL, Summit, N. J.

STRAWBERRY PLANTS

Strawberry Plants, \$2.50 per 1000. Cata-
logue free. BASIL PERRY, Georgetown,
Delaware.

SWEET PEA SEED

Ant. C. Zvolanek, Lompoc, Calif.
Gold Medal of Honor Winter Orchid Sweet
Peas.
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TOMATO SEED

J. Bolgiano & Son, Baltimore, Md.
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Wiley's Farm, East Patchogue, L. I., N. Y.
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TREE SURGERY

The Davey Tree Expert Co., 1302 Elm St.,
Kent, Ohio.
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VASES

H. Bayersdorfer & Co., Philadelphia, Pa.
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VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

COMET TOMATOES—Fine plants grown
from Roney's special forcing strain in
sterilized soil. Strong 2½ inch plants, \$2.50
per 100; \$22.50 per 1000. Cash please.
J. J. CLAYTON & SON, West Grove, Pa.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
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The John A. Evans Co., Richmond, Ind.
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VERMICIDES

Aphne Mfg. Co., Madison, N. J.
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WAX GOODS

Boston Floral Supply Co., Boston, Mass.

WHEAT SHEAVES

H. Bayersdorfer & Co., Philadelphia, Pa.
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WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
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WIREWORK

Reed & Keller, New York City.
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WILLIAM E. HEILSCHER'S WIRE
WORKS, 264 Randolph St., Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
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Baltimore

The S. S. Pennock-Meehan Co., Franklin
and St. Paul Sts.
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Boston

Welch Bros. Co., 226 Devonshire St.
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Patrick Welch, 262 Devonshire St.
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Welch's, 280-282 Devonshire St.
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H. M. Robinson & Co., 32 Otis St. and 2
Winthrop Sq.
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Brooklyn

Wm. H. Kuebler, 28 Willoughby St.
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Buffalo, N. Y.

William F. Kasting Co., 568-570 Washing-
ton St.
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Chicago

Poehlmann Bros. Co., Morton Grove, Ill.
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J. A. Budlong, 184 North Wabash Ave.
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Zech & Mann, 30 East Randolph St.
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WHOLESALE FLORISTS
Detroit

Michigan Cut Flower Exchange, 264-266
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New York

H. E. Froment, 148 W. 28th St.
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W. F. Sheridan, 133 W. 28th St.
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P. J. Smith, 131 West 28th St.
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Hentz & Nash, 55 and 57 W. 26th St.
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Charles Millang, 55 and 57 West 26th St.
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W. P. Ford, 107 W. 28th St.
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J. K. Allen, 118 West 28th St.
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The S. S. Pennock-Meehan Co., 117 West
28th St.
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Traendly & Schenck, 436 6th Ave., between
26th and 27th Sts.
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Badgley & Bishop, Inc., 34 West 28th St.
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Paul Meoni, 57 West 28th St.
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Woodrow & Marketos, 37 and 39 W. 28th St.
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Riedel & Meyer, Inc., 49 West 28th St.
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George C. Siebrecht, 109 W. 28th St.
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John Young & Co., 53 West 28th St.
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M. C. Ford, 121 West 28th St.
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United Cut Flower Co., Inc., 111 W. 28th St.
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Guttman & Raynor, Inc., 101 W. 28th St.
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Gunther Bros., 110 West 28th St.
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Henry M. Robinson Co., 55-57 W. 28th St.
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W. R. Siebrecht, 114 West 28th St.
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Herman Weiss, 106 West 28th St.
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J. J. Coan, 115 West 28th St.
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William Stuart Allen Co., 53 West 28th St.
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Joseph S. Fenrich, 51 West 28th St.
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L. B. Nason, 116 West 28th St.
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Frank Millang, 55-57 West 26th St.
York City.
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The Beechwood Heights Nurseries, Thos.
Young, Jr., Prop., 57 West 28th St.
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Philadelphia

Leo. Niessen Co., 12th and Race Sts.
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Edward Reid, 1619-21 Ranstead St.
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The S. S. Pennock-Meehan Co., 1608-20
Ludlow St.
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Philadelphia Wholesale Florist Exchange,
1615 Ranstead St.
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Richmond, Ind.

E. G. Hill Co.
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WHOLESALE FLORISTS
Rochester, N. Y.

George B. Hart, 24 Stone St.
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Washington

The S. S. Pennock-Meehan Co., 1216 H St.,
N. W.
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New Offers In This Issue**CATALOGUE OF DEPENDABLE
NOVELTIES.**

Sutton & Sons, Reading, Eng.
Winter, Son & Co., New York City.
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S. A. NUTT GERANIUMS.

R. Vincent, Jr. & Sons, White Marsh, Md.
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GLADIOLI AND CANNAS.

Arthur T. Boddington Co., Inc.,
New York City.
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GLADIOLI EXCLUSIVELY.

B. Hammond Tracy, Cedar Acres,
Wenham, Mass.
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**HIGH GRADE CUT FLOWERS FOR
ST. VALENTINE'S DAY.**

Max Schling, New York City.
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LILACS AND PUSSY WILLOW.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
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LILY OF THE VALLEY PIPS.

W. H. Siebrecht, Astoria, New York City.
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**NEW CHRYSANTHEMUM CATA-
LOGUE.**

Elmer D. Smith & Co., Adrian, Mich.
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SEASONABLE BULBS.

Henry F. Michell Co., Philadelphia, Pa.
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**Plant Propagation, Greenhouse
and Nursery Practice****By M. G. KAINS**

We have had many inquiries from time to time for a reliable and up-to-date book on plant propagation, but were always at a loss to find any publication that we could recommend. The subject has been dealt with in fragmentary manner only in books that have come to our notice. So it is well that this new work has been issued, especially as it is both comprehensive and practical, and it should meet with a ready sale among plantmen, nurserymen and gardeners. There are nineteen chapters covering in detail topics of germination and longevity of seeds, propagating by buds, layering, cuttings, grafting, etc., fruit tree stocks, clones, etc., and there are eight pages of condensed cultural instructions in tabulated form, covering annuals and perennials from seed, woody plants, evergreens, vines, bulbs and tubers, greenhouse and house plants, ferns, palms, water plants, orchids and cacti. The illustrations are numerous, comprising 213 figures and halftone plates. There are 322 pages well bound and on heavy paper, teeming with helpful information. It is a book which no cultivator can afford to do without. It is worth many times its price. Copies can be supplied from the office of HORTICULTURE at publisher's price, \$1.50.

Horticulture Publishing Co.

197 SUMMER ST., BOSTON, MASS.

WANTS, FOR SALE, Etc.**HELP WANTED****WANTED****A First Class Plantsman**

as greenhouse foreman on private place near Boston; would be obliged to board two or more assistants. Free house and good wages to the right party. State particulars and references.

Address "J," care of HORTICULTURE.

WANTED—A gardener, as second man, who understands greenhouse work and can make himself useful in store on designs, etc. Must be married and would rather have a man about forty-five. Address HARVEY B. GREENE, 175 Stevens St., Lowell, Mass.

WANTED—Landscape man to draw plans and execute work; good chance for bright, energetic young man. Address with full particulars, salary expected to begin with, etc., to "LANDSCAPE," care HORTICULTURE.

HELP WANTED—Estimator for greenhouse building work, iron and wood material, glass, fittings, etc. Good steady opening for right man. "G. S.," care of HORTICULTURE.

SITUATIONS WANTED

SITUATION WANTED as vegetable gardener or general man on private estate. Experienced in vegetables, shrubs, lawns, etc. English, married, no family, age 36. Address S. B., care of HORTICULTURE.

FOR SALE

To the Man who Understands the Growing
of Flowers and Vegetables

THIS IS THE OPPORTUNITY

In an academic town 26 miles from Boston, along a much traveled state road, with the electric cars running by the door, and within 10 minutes walk from the center of the town

A FLORIST ESTABLISHMENT

consisting of a six room cottage, 7 acres of the finest level land, 1 greenhouse 80 x 24 and showhouse along the street 16 x 14, potting shed and boilerroom. Virtually the only florist establishment in the town; high grade retail trade; an opportunity to make money. Price \$5,500; easy terms to the right man. Apply to U. S. BURNS, Franklin, Mass.

THE NUT-GROWER

The unique monthly publication which furnishes reliable and interesting up-to-date information regarding the value of pecans and other edible nuts and how to grow them for profit.

Subscription, \$1.00 per year

Sample Copy Free

THE NUT-GROWER

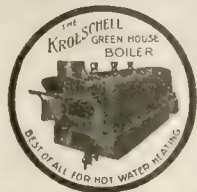
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WAYCROSS, GA.

In writing to Advertisers kindly mention Horticulture

Est. 1765

Inc. 1904

Pot Makers for a
Century and a Half**HEWS****STRONG
RED
POROUS****POTS**World's Largest
ManufacturersStandard, Azalea, Bulb, Orchid, Fern, Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.Write for Catalogue
and Discounts**A. H. HEWS & CO., Inc., Cambridge, Mass.**Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.

If you need a boiler in a hurry telephone or telegraph at our expense

KROESCHELL BOILERS

SEND FOR CATALOG

Kroeschell Bros. Co., 466 W. Erie St., Chicago**OF INTEREST TO GARDENERS
AND TREE MEN.**

The Civil Service Board of the West Chicago Park Commissioners will hold an examination as follows:
Examination No. 241.

Gardener, Class G, Rank II. Original entrance. Pay \$.30 to \$.45 per hour. To be held February 19th, 1917, at 9.00 A. M. at the general offices in Union Park. Open to men between the ages of 21 and 50 years, regardless of residence. Applications must be filed in the office of the Board in Union Park before 12 o'clock noon of February 17th, 1917.

Subjects: Special Subject, weight of 6; Experience, weight of 3; Physical, weight of 1.

Special Subject: To include a written and oral test on the identification, general care, planting and characteristics of trees, shrubs and perennials and on making and maintaining lawns.

The duties of Gardener include the planting, pruning and general care of trees, shrubs, perennials, lawns and outside gardens and occasional supervision of laborers in related work.

Persons who desire to take these examinations must obtain application blanks by calling or telephoning the Civil Service Board at Union Park (Phone, Monroe 5840). The application blanks must be filled out and returned to this office—by mail or in person—so as to reach here before the time fixed in the notice.

FRED. G. HEUCHLING,
Superintendent of Employment.

Walter M. Lowney has made a gift of Lowney Park, containing one and one-half acres, to the town of Mansfield, Mass.

An elaborate Italian garden is being constructed at Watch Hill, R. I., for Mrs. E. R. Turnbull of Montclair, N. J., under the supervision of Wilbert A. Clarke.

The Massachusetts Forestry Association has sent out a circular recommending as a means of frustrating the white pine blister rust in future commercial plantings that white pines and red pines be planted in equal numbers alternating them in the rows or

planting them in alternative rows. When the thinning period arrives, if the white pines are infected with the rust, they should be taken out and the red pines allowed to reach maturity. On the other hand, if at that time the white pines are free from the disease, the less valuable red pines can be removed and a crop of the white pines grown. It is further advised that all currant and gooseberry bushes, both wild and cultivated, in the vicinity, be pulled up.

PUBLICATION RECEIVED.

Gardeners' and Florists' annual for 1917. A Year Book for Florists, Seeds-men, Nurserymen, Gardeners and All Interested in Horticulture. Edited by J. Harrison Dick, published by the A. T. Delamare Company, New York. This new edition of this very useful publication is carefully revised up to date and gives a vast amount of authentic information on a myriad of topics. A considerable part of the contents is entirely new.

**GREENHOUSES BUILDING OR
CONTEMPLATED.**

Reinbeck, Ia.—H. J. Watson, one house.

Virginia, Minn.—Alfred Johnson, house 56 x 150.

Lincoln, Neb.—N. Arrigo, one house, Foley material.

Springfield, Ill.—Hembreiker & Cole, Moninger house 35 x 150.

Pawtucket, R. I.—J. & P. Coats Co., Pine street, house 23 x 40.

Louisville, Ky.—F. Walker Co., house 34 x 150 in the spring.

Washington, N. J.—Benjamin Castner, Belvidere avenue, addition.

South Bethlehem, Pa.—Bethlehem Steel Co., Lord & Burnham house 20 x 100.

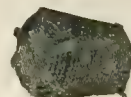
PATENTS GRANTED.

1,214,142. Fruit Tree Prop. Charles S. Dingwall, Medford, Ore.

1,214,356. Flower Pot. Christian Natvig, Ivanhoe, Minn.

My dear Sir:

Find enclosed check for Two Dollars, two years' advance subscription to your paper. Must say it certainly improves with age. With best wishes,
New York, Feb. 5, 1917. R.

**NON-KINK WOVEN HOSE**

In any length (one piece) with couplings, 15c. per foot. Unequalled at the price.

**Hose Valve, 70c.**

All brass except the hand wheel. Has a removable leather disk which is easily replaced to keep water tight. Stuffing box prevents leaks at stem.

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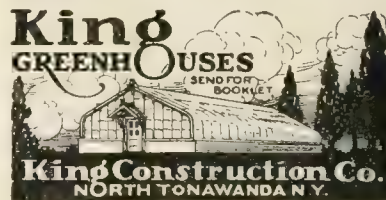
1392-1414 Metropolitan Ave., Brooklyn, N. Y.

**DREER'S**

Florist Specialties, New Brand. New Style. Hose "RIVERTON." Furnished in lengths up to 500 ft. without seam or joint.

The HOSE for the FLORIST
1/2-inch, per ft., 15 c.
Reel of 500 ft. " 14 1/2 c.
2 Reels, 1000 ft., " 14 c.
3/4-inch, " 13 c.
Reels, 500 ft., " 12 1/2 c.

Couplings furnished
HENRY A. DREER,
714 Chestnut St.,
PHILADELPHIA, PA.

**Use the only shading****E. A. LIPPMAN**

6 HIGH STREET

Morristown, New Jersey

Send for Booklets

STANDARD FLOWER**POTS**

If your greenhouses are within 500 miles of the Capitol, write us; we can save you money.

W. H. ERNEST

29th & M Sts., Washington, D. C.

FOLEY MATERIALS

ARE THE BEST FOR

Iron Frame, Pipe Frame or Wood Frame

GREENHOUSES

Estimate and Sketch Submitted Promptly

THE FOLEY GREENHOUSE MFG. CO.

3275 West 31st Street, - - - - - CHICAGO, ILL.

SHARP, PARTRIDGE & CO.

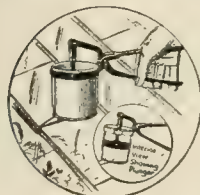
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GREENHOUSE GLASS

OUR PRICES WILL PROVE THIS.

CHICAGO, ILL.

The Only Perfect Liquid Putty Machine



Will last a life-time.

\$1.25 EACH

Adjustable—can and frame separate—easily cleaned. Frame all one piece, of malleable iron. More practical and more easily operated than any other.

SEAL TIGHT LIQUID PUTTY

\$1.35 per Gallon in 10 Gallon lots

\$1.40 per Single Gallon

METROPOLITAN MATERIAL CO.

1392-1414 Metropolitan Ave., Brooklyn, N. Y.

Dreer's Peerless Glazing Points

For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.

The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid. Samples free.

HENRY A. DREER,

714 Chestnut Street,

Philadelphia.

FULL
SIZE
No. 2

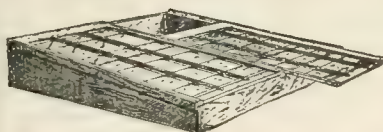


Let us prove to you that Advance Materials are unequalled.

A trial order convinces. Fair and square dealings. Get new catalog free.

Advance Co.

RICHMOND, IND.



HOTBED SASH at 80c. each

Made of best grade Gulf cypress.

Glazed Hotbed Sash from \$1.65 up.

Double Light Sash up to \$4.00.

We carry a large stock of all sizes.

Write us for estimate

S. JACOBS & SONS

1359-1385 Flushing Avenue BROOKLYN, N. Y.

GLASS CLOTH

A transparent waterproof fabric, guaranteed to generate about the same warmth and light as glazed sash, or money back. For all forcing purposes. Sample 3 x 6 feet. 50c. prepaid.

PLANT FORCERS

TURNER BROS., Bladen, Nebraska

LOUIS COHEN Window and Plate Glass

86 1st Avenue, NEW YORK CITY

Double Thick 16/24 for the Florist

A SPECIALTY. WRITE ME FOR PRICES.

The Florists Hail Association rate of insurance from Nov. 1st, 1916 to Nov. 1st, 1917 will be twenty cents per hundred square feet of single thick glass and eight cents per hundred square feet of double thick glass. For particulars address JOHN G. ESLE, Sec., Saddle River, N. J.

Quality Greenhouses

At Minimum Cost

For Greenhouses of recognized merit,

For Greenhouses of proven dependability,

For Greenhouses of the very finest material and construction.

For Greenhouses which have demonstrated for over 45 years, that

**WE KNOW WHAT TO DO
AND WHAT NOT TO DO**

See Us!

S. Jacobs & Sons

Greenhouse Builders

1359-1385 Flushing Avenue

BROOKLYN, N. Y.

GLASS

**GREENHOUSE MATERIAL
HOT-BED SASHES**

Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.

215-217 Havemeyer St., Brooklyn, N. Y.

PATENTS

**Trademarks
and Copyrights**

Difficult and rejected cases specially solicited. No misleading inducements made to secure business. Over 30 years' active practice. Experienced, personal, conscientious service. Write for terms. Address,

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.



Evans 20th Century Arm

Most up-to-date arm on the market. Proof that it is better than any other is that others tried to imitate it. Write for our 1916 catalog just out

JOHN A. EVANS CO.
Richmond, Ind.

MASTICA

For Greenhouse
Glazing

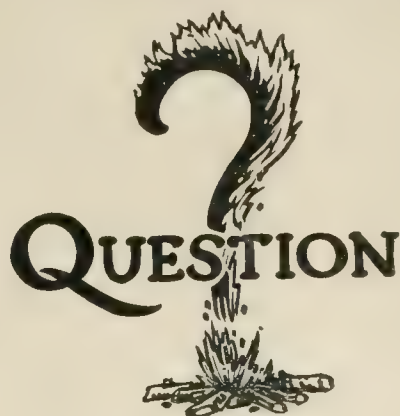
USE IT NOW

F. O. PIERCE CO.

12W. BROADWAY
NEW YORK



Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.



The Burning Question Regarding The Present Building Situation Is —

WHETHER you had best buy your greenhouse now or wait for a drop in steel prices.

Let's get right down to the facts of the matter.

Steel prices are higher now than they have ever been before. They have been climbing steadily. They haven't stopped climbing; and from all indications they're not going to stop climbing.

Briefly—the longer you wait, the higher the price you'll probably have to pay for your greenhouse. Besides, losing all the business at sky high war-time prices that you might have gotten had you had your greenhouse while you were waiting for prices to go down.

The possibility of peace being declared is unfortunately a remote one at best. Conservative New York bankers whose fingers must needs be continually on the pulse of world events, are almost unanimous in their opinion that while several peace parleys may be forthcoming during the next year, the war will still drag on.

It is a significant fact that when peace was first broached by the Central Powers, steel slumped only the expected number of points, incidental to Wall Street flurries. Which loss was followed by a steady climb, back to normal.

Far in the future as the end of the war really seems, if it should end tomorrow, it would still have but little effect on steel prices.

Most of the big steel concerns have orders for their output for many months to come. The entire output of the Bethlehem Steel Co. during the year 1917 is already contracted for.

Other steel mills have orders placed by foreign powers, for two and three years ahead on the non-cancelable, but transformable basis. That is, if the war should end, the balance of the order not already filled in the form of munitions, shall be filled in the form of other steel products to be specified for use during the Reconstruction Period that must necessarily follow the war.

In view of which, is it really good business to wait for a fall in steel prices that may be a long time coming? Especially to delay in building your proposed greenhouse, at this time of all times, when everybody else is going after record-breaking, war-time business with a vengeance—and getting it.

Many florists are protecting themselves against a further jump in steel prices by ordering their greenhouses now. Beside being able to get them for a price probably lower than it will be a few months from now; there's the added advantage of having all materials right on the ground so that just as soon as the ground is in condition, the building can start, and the house be ready for roses and other early plants well before the first of June.

It is often even possible to build in mid-winter during a protracted spell of mild weather. For instance, last Winter we built four, 61' by 500' houses for L. B. Coddington of Murray Hill, New Jersey.

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1917

HORTICULTURE



An Effective Jardiniere Group

By Max Schling, New York

Published Every Saturday at 147 Summer Street, Boston, Mass.
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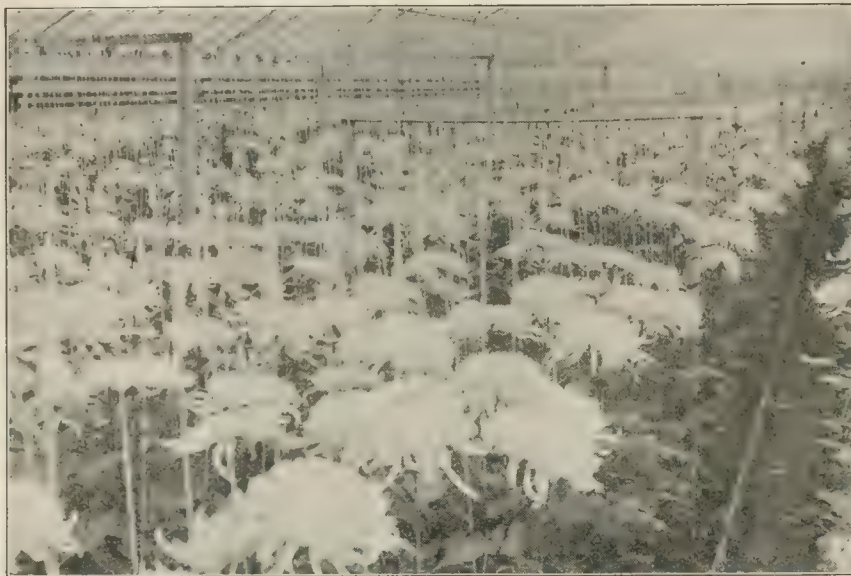
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"HAMBURG LATE WHITE" CHRYSANTHEMUM



Above picture was taken Nov. 26, 1916, and will give a good idea of what "Hamburg Late White" looks like when grown to single stems and planted six inches each way.

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NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toil, we ought to blame the culture, not the soil."—Pope.

Calceolarias

Green fly is very partial to calceolarias. Slight fumigation repeated often will tend to keep them in check. As the flower spikes push up they will need some wire stakes for support. They should now have a shade of some kind during the bright hours. Give them some cow or sheep manure water, once or twice a week, just as soon as the pots are filled with roots. Keep the night temperature as near 45 degrees as possible and be very careful in watering, avoiding extremes either way. Give them plenty of ventilation, but see that they are not swept by cold draughts. Set the pots on a moist bottom, and keep it so by syringing between pots. Do not crowd these plants but give plenty of room.

Candytuft for Memorial Day

Candytuft will not stand any coddling and does better in a night temperature of 45 degrees than at 50. If your plants seem at all late you can run them a little warmer as the flowers open. This is a very good crop to grow for Memorial Day trade. For that date it should be sown no later than the 20th of February. If there are not empty benches in February the best plan is to sow in 3-inch pots. Put half a dozen seeds in a pot and thin out to three. You can also sow in flats of light soil, but great care must be taken to pot off in good season, as candytuft seedlings do not transplant as easily as some other annuals. Place the pots or flats on a shelf or bench in a moderately cool and well aired house, with a temperature of not more than 48 degrees at night. If vacant beds or benches are at disposal, sow it in rows 12 to 15 inches apart and rather thinly. Do not leave more than three or four good seedlings to the square foot. Keep moist at the roots, with a good syringing on all good days.

Cyclamen

Give a moderate amount of air daily whenever possible and keep the atmosphere rather moist on bright days and they will need some shading as the sun becomes stronger for three or four hours of the hottest part of the day. Through all their season of growth they should never lack water at the roots. Shift before they become pot-bound, and so on until they have reached their flowering size. Seedlings that were sown in the fall should now be ready for 2½-inch pots. Place them near the glass in an average minimum temperature of 55 degrees at night with 10 to 15 degrees higher during sunshine. Give syringing proper attention so you can keep thrips and red spider in check. A light weekly fumigation will help to keep them clean. A good compost to use is sifted fibrous loam three parts, leaf mold two parts, and well rotted cow manure one part, with a little sand.

Fancy-Leaved Caladiums

First, sort all the available tubers into sizes, planting each size in a box separate. Put some moss in the bottom of the box and then lay the tubers close to one

another, as their stay in these boxes should be short. Place about three-quarters of an inch of moss over the tubers and then set in a frame over the pipes, where a temperature of from 70 to 75 degrees can be maintained. When they have made a nice lot of roots they should be potted into the smallest-sized pots that will hold them comfortably. Use a compost of two parts leaf-mold with equal proportions of peat and sand. Until the roots have made some progress, watering should be done very carefully. For subsequent shifts use fibrous loam peat and leaf-mold in equal parts, with the addition of some well-rotted cow manure and sand. These plants like a temperature not lower than 65.

Gladioli

The first planting of the large-bulbed varieties can now be done and do not omit a good number of that inexpensive, but excellent scarlet variety, *Brenchleyensis*, in addition to *America*, *Augusta* and *Mrs. F. King*. For a good Memorial Day crop gladioli should be planted now in benches. The market for these is usually good in April and May, and fairly good in June, and there is not much likelihood of spikes being wasted even though a good many of them flower before and after Memorial Day. Of course, so much depends on climatic conditions that it is not easy to hit the date just right with this crop. Do not use any fresh manure which will come in contact with the bulbs. If you have no old manure, try fine bone and pulverized sheep manure, incorporating this well with soil. Again, the bulbs do not flower at one time, which is generally an advantage. They do well in from 50 to 55 at night.

Propagation of Rubbers

In answer to a subscriber who inquires about mossing rubber plants you can moss them any time from now and up to May with success. With a temperature of 65 to 70, and a close moist atmosphere they should begin to root through the moss in four to six weeks. After you have mossed the stems place a stake to each one and tie above the moss and below it. The moss should be kept moist all the time. It is always better to keep the rubbers quite dry at the roots while mossing is going on. When the roots come through the moss the cutting can be cut off, potted and kept shaded in a moist atmosphere.

Reminders

See that no frost reaches the house where azaleas are being kept back for Easter.

Keep *Gladiolus Colvillei* and others of this section cool, as they then produce better flowers.

Allow tuberous rooted begonias to come along in a moderate temperature, as they do better for it.

Keep the cutting benches free from dead or dying cuttings. If it is seen that a few cuttings have missed pull them out without disturbing the sand.

Next Week:—Compost; *Habrothamnus*; Lilies for Easter; Making Hot Beds; Orchids; Reminders.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Mulching

The sun being much stronger during the day the roses will easily take much more feed than they have been getting all along. It will also be necessary to give protection to the roots, as these will suffer if the soil in the benches is laid bare and exposed to the rays of the sun and to the air. There is nothing better for this work than old well decayed cow manure, which to be just right will have to be composted some time in advance and turned over about once in a week or fortnight to insure its decaying, and to break up the large lumps into smaller ones, thus insuring a good even mixture all the way through. If no well decayed manure is on hand then fresher manure can be used, but it will have to be used very carefully so as not to burn the roots and foliage. Before putting it on have the plants well watered, and if time will permit, clean the benches thoroughly of all dead leaves, weeds and other waste matter. Another important thing is to make sure that the plants are in the right stage to receive the mulch. To be this way they should just be starting for another crop of flowers, and the growths about three inches long. Do not apply the manure too heavily at the one time. If it happens to be a least bit fresh, use only about a shovelful to four square feet of bench. This will have to be spread carefully, so as to put more to the front of the benches and much less to the back and centers. Right after the mulch is applied, water the benches well. This will wash the manure into the soil at once, and also kill any heat that may be in the manure. If the weather is severe when the mulching is done it will be best to do only a bench in one house, so that the fumes would not burn the leaves. If the weather is milder, more can be applied at the one time and a little air carried during the day, and at night for the first two nights, after which it will be safe to run the houses same as usual. Avoid using manure that has too much long straw in it. If it is real short it will not matter so much.

Disbudding

The plants will show new signs of life now that spring is nearing, and it will be necessary to go over them twice a week to make sure that all the side growths are taken off as fast as they appear on the buds proper. On rare occasions it will be advisable to leave the buds as in the case of strong bottom breaks which generally throw a poor bud, making it better if the side buds are allowed to remain on until about the time that the bud proper begins to show color. When disbudding it will be well to watch for plants that are pretty well cut off, and if there are any short stems with buds just about showing, the buds should be removed, thus giving the plants a little more growth to carry and giving them a better chance to grow. The stems disbudded will throw one or two shoots which will not take very long to grow into good flowers. When these are cut they can be taken away back to the original two eyes, which will keep the plants low, doing away with a lot of unnecessary hard wood. The stems thus cut will also be much longer, so there

is no loss whatever, for if the buds are taken at the right time the eyes below will branch out almost at once, and the flowers following will be only a few days behind the date the original buds would have flowered.

Cleaning Young Stuff in Pots

There are times when even with the best of soil and clean pots, the soil around the young stock will get green on the surface, sometimes so badly that if it were left alone it would seriously hamper the growth of the new plants. To rid the plants of this it will be necessary to go over the pots one by one with a small hand soraper and remove the very surface of the soil with all the green scum. This will take a good deal of labor but it will be time well spent, the plants being worth fully more in the end. As the work is done, all poor and dead plants can be thrown out. The best and tallest of the plants should be put to the back of the bench, giving the entire front to the smaller and weaker plants. It will be necessary to do this and if the work is done right the plants will all have an equal show. The taller plants will take more water, but being in the back they will not dry out so fast as the poorer ones in the front, which again will not take as much water, but being to the front they will dry out much quicker. In this way all the plants will run nearly the same as far as moisture is concerned, with the exception of the first row in the front and rear, which naturally will dry out very fast and may have to be watered two or three times to one watering of the rest. A little hydrated or air slacked lime applied to the plants right after they are cleaned will help keep the soil sweet and open. Or if time will permit they can be watered with lime water which is made by putting about a peck of stone burned unslacked lime into a barrel and adding enough water to slack it. After it is thoroughly slacked the barrel can be filled to the top with water, which is allowed to settle, and the plants watered with the clear liquid. It will not hurt if a little of the lime from the bottom of the barrel is stirred into the water, only the plants would look disfigured.

Care of Young Beauty Plants

These will have to receive altogether different treatment than given the other roses, especially when it comes to spraying. All other varieties will take spraying late in the afternoon, yes even at night during zero weather. This is not the case with Beauties, however, which should never be sprayed in the afternoon and never at night. If they were there will surely follow a bad dose of spot which will give the plants a severe check and cause them to lose much foliage which they need very badly when they are just starting. Also be careful to go over the young plants very often, and take off all the little buds that may begin to show here and there. If these were allowed to remain on until the flowers opened, the plants that bore them would never amount to anything, being only weaklings. Do everything that will keep all the energy that the plants now possess and if there is any way in which more can be added, do so.

Hardy Opuntias

Up to the present day the study of our native flora as a hobby among the horticultural craft seems an extremely rare exception. During the twenty-five years of my career in this country I know of only one instance, meeting a young American-born landscape architect interested in and well posted on this subject. The consequence is a very vague idea of the immense richness of our home vegetation in beautiful plant-forms among our rank and file. And yet, the fact that during the last century many valuable native plant species have been collected by European explorers, sent abroad, and, after acclimatizing and perhaps hybridizing returned in exchange for American dollars and cents as "indispensables" for our gardens, seems to prove that the study of our flora does not necessarily need to be a mere freak. Turning to the hardy growing wild in the barren districts of mountainous sections of Arizona, Nevada and California, I am well aware that to speak of them in adjectives as beautiful or indispensable means to invite contradiction from various directions. Surely, who ever attempted to handle them without wearing thick leather gloves had his hands full. To trace and dig them out is tediously annoying. But facing the task of planting a dry-wall exposed to the south with the chances that our plantations will receive very little care, we find resistant material scarce. Opuntias we know live and grow in a small amount of soil, surviving prolonged aridity and extreme cold without injury. In form of growth oddly interesting, their appearance when in full bloom during July is decidedly handsome. Of the species listed in trade catalogues *Opuntia Rafinesquei*, a strong grower, producing large sulphur-yellow flowers in great abundance, is one of the



OPUNTIA RAFINESQUEI

best. *Opuntia comanchica* and *spirocentra*, also of robust habit of growth, have longer spines than the first mentioned. Very useful for naturalizing on dry slopes as well as for the pockets of the rockery exposed to the south and southwest, is the smaller growing very lightly spined *Opuntia humilis* with short flat branches and countless little yellow blossoms. Fully matured limbs of opuntias root very easily when inserted in sandy ground out in the open. Our hardy cactuses of the western desert districts are inconvenient to handle, but we need them for dry-walls and the open south and southwest exposure of the rockery and to lose sight of them at this time does not seem very wise.

Richard Rothe

Glenside, Pa.

MASSACHUSETTS AGRICULTURAL COLLEGE NOTES.

Professor A. B. Beaumont, of Cornell, has been appointed to head the Department of Agronomy.

Professor A. H. Nehrling addressed the Horticultural Society of Boston last Saturday on "Perennials We Should Grow."

Prof. A. K. Harrison addressed the Tuckerman Botanical Club, Thursday evening on the subject "Native New England Plants Used for Ornamental Planting."

The Landscape Art Club Bowling Team defeated the Florist & Gardeners' Club Team ("The Grave Diggers and Decorators") by 78 pins last Friday evening.

Emile Mardfin, Cornell '16, has been appointed graduate assistant in the Department of Botany to fill the vacancy left by the appointment of William Doran as Instructor in Botany and State Botanist at Durham, N. H.

The seminar meetings conducted by C. E. Wildon in the Ten Weeks' course have proven exceedingly successful.

The meetings are being held every Tuesday evening, and various subjects are taken for discussion. Last Tuesday evening a very interesting discussion of Informal and Formal Gardens took place. On next Tuesday evening the subject of Soil Sterilization will be taken up. L. H. Jones, of Milford will start the discussion with some very interesting facts on partial sterilization of greenhouse soils.

Farmers' Week program, Dept. of Floriculture, Tuesday afternoon, March 27, 1917:

- 1.00 The Use of Native Plants. Prof. F. A. Waugh.
- 2.00 Garden Flowers (Illustrated). Prof. A. H. Nehrling.

Wednesday morning, March 28.

- 9.00—Fertilizers for Greenhouse and Garden. Prof. F. W. Morse.
- 10.00—Ornamental Vines and Their Uses. Prof. C. H. Thompson.
- 11.00—Landscape Gardening on the Farm. Prof. A. K. Harrison.

Wednesday afternoon, March 28.

- 1.00—Garden Roses and Their Culture. Dr. A. C. Beal (Cornell Univ.)
 - 2.00—Continuation of preceding hour.
- A collection of spring flowering bulbous plants will be on exhibition in the greenhouse during Farmers' Week.

NATIONAL ROSE AND PEONY GARDENS.

Request is made by the Office of Horticultural Investigations of the U. S. Department of Agriculture, Washington, D. C., for contributions to the test gardens at Arlington, Virginia, of roses and peonies of varieties not now represented in the Government collections. At the present time approximately 700 varieties of roses and 400 varieties of peonies are growing in the Arlington gardens. The Department of Agriculture is creating the test gardens in co-operation with the American Rose Society and the American Peony Society. Persons who believe they have varieties of roses or peonies not represented in the Arlington gardens and who wish to contribute to the collections should first write to the Office of Horticultural Investigations, Washington, D. C., offering specific varieties or requesting a list of the varieties desired.

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A plain case A note from Chicago has been going the rounds of the daily newspapers to the effect that a resolution had been passed at a joint meeting of Irish societies in that city asking for the adoption of an ordinance prohibiting the sale of "green pigs, snakes and other freak curios in mockery of the patriotic saint" on St. Patrick's day. Can't say we blame the Irishmen very much for their protest and how did they happen to overlook the green carnation in their condemnation? We pass it along to the Chicago city council that in case the proposed quarantine does go on, the green carnation should be included as contraband. Is it not folly to discuss the

"why" of the carnation while the "divine flower" continues to be so shamefully degraded?

Two ways "The ideal valentine is, of course, a bunch of posies. The florists now make the flower valentine the most charming of all their contributions to the holidays of the year."—*Worcester (Mass.) Post*.

The young man who is trading gold certificates for American Beauty roses isn't the only lad who wishes that Cupid had passed on his way and let him alone. Yesterday florists said common pink roses, mere white ones, ordinary yellow ones and the hybrids of known and unknown degrees all were costing more than before.—*New York Herald*.

The effort to make flowers popular as valentine gifts may be greatly assisted or lamentably hindered by notes such as the foregoing in the daily newspapers and the florist, not the reporter, is the responsible party. Comment as to the influence upon the attitude of the public towards the florist trade, for valentine or other occasions, by the publication of such notes, is unnecessary here. Which of the two shows best judgment, in your opinion?

Co-operative publicity The plan of combined advertising by the retail florists of a community, as, for example, in the case of the florists of Washington, D. C., mentioned in our retailers' department this week, has much to recommend it. Space on the best pages of the leading daily papers, of sufficient size to admit of adequate display, costs much money—more than many florists feel that they can invest alone in that direction, but by the joint use of the space a strong showing is obtained at a small cost to each one contributing and the main object is accomplished—which in the present instance is to encourage the use of flowers as valentine gifts. In the resultant business from this joint publicity every florist in the neighborhood may expect to share. Another pleasing outcome from this little co-operative enterprise on the part of the trade, and one much to be desired, is the friendly intercourse and amicable relationship it tends to foster and establish between members of the same business who have been too prone in the past to keep at a distance from one another.

Well done Favorable action by the New Jersey legislature on the application for an extension of the corporate existence of the Florists' Hail Association of America for thirty years more, is reported in our news columns. The Florists' Hail Association has proved itself to be a most beneficent institution and its success has been exceptional when we consider that it has gone along without encountering any formidable unforeseen complications or finding necessity for any radical changes from the original plans as put in operation thirty years ago—a fact which is all the more notable because the scheme was on lines previously untried and which had been declared visionary and impracticable by men well experienced in such matters. Many a hard-working florist owes his business existence today to the hail association which, when calamity overtook him, stood between him and utter ruin. While it is true that the association has had continuously the backing and serious attention in its affairs of many able business men yet we think it will be universally acknowledged that the perpetual secretary, John G. Esler, is pre-eminently the man to whom the credit belongs for the institution as we have it today. HORTICULTURE extends felicitations and the hope that Mr. Esler may be found still at his post when another thirty years shall have rolled along.

SOCIETY OF AMERICAN FLORISTS and ORNAMENTAL HORTICULTURISTS

The arrangements for the Trade Exhibition in connection with the convention to be held in New York next August are progressing satisfactorily. The florists' supply trade and others doing business with growers and retailers are evincing a keen interest in the exhibition, as will be seen by the following list of those who have already reserved space on the exhibition floor. John G. Scheepers, Inc., George L. Stillman, B. Hammond Tracy, John Lewis Childs, Arthur Cowee, Schloss Bros., H. Bayersdorfer & Co., Reed & Keller, Arthur T. Boddington, Inc., John C. Moninger Co., John A. Evans Co., The Advance Co., King Construction Co., Jackson & Perkins Co., American Greenhouse Co., Lord & Burnham Co., Russin & Handling. A very large attendance of representatives of the trade from all sections of the country is assured, consequently the Trade Exhibition will be unusually large.

The Convention Garden which has been laid out in the Botanical Gardens at Bronx Park, under the supervision of Dr. N. L. Britton, is an undertaking worthy of New York. Preparatory work was engaged in until the ground became too much frozen to make the continuation possible. Besides serving the purpose of the society the garden will be an object of interest to hundreds of thousands of the public, all horticultural enthusiasts. With this in view Dr. Britton has spared no effort to make the garden attractive. So far, the following have arranged for planting: W. A. Manda, Maurice Fuld, John G. Scheepers, Inc., Bobbink & Atkins, Henry A. Dreer, A. N. Pierson, Conard & Jones Co., John Lewis Childs, Raymond W. Swett, Arthur Cowee, B. Hammond Tracy, Arthur T. Boddington, Inc.

The annual report of proceedings of the society will be mailed to members of the society about Feb. 20. Conditions without control of the society have caused some little delay in the publication of the volume this year, but it will be worthy of close study, being more than usually interesting. One thing particularly the society is to be congratulated upon is that the list of members in good standing published in the book is much larger than ever before recorded in the history of the society.

Rules Relating to the Management of the Trade Exhibition, New York City, August 21, 22, 23, 1917.

1. The Society shall, through its Executive Board control all the features of the trade exhibition.
2. The Secretary shall act as a Superintendent of trade exhibits with an Advisory Committee of Three, said Secretary shall have general charge of all details of the Annual Exhibition. He shall receive all applications for space and assign the same in the order in which they are received by him. He shall furnish the Judges a list of the exhibitors and exhibits by 1.00 P. M. on the day of opening the convention. He shall also furnish the Judges with a list of novelties and new devices submitted for awards.

He shall make no expenditure exceeding

\$10 in amount without the consent of the Advisory Committee. He shall keep full detailed records of receipts and expenditures and other matters of importance relating to the exhibition. Immediately after the close of the convention, he shall make a complete report, which, after having been audited and approved by the Advisory Committee, shall be filed with the records of the Secretary. All the moneys collected by him shall be forwarded from time to time, without undue delay to the Treasurer. All bills incurred shall be indorsed by him and submitted to the Advisory Committee for approval, after which they shall be paid in the usual manner as provided.

The Advisory Committee shall act as an advisory board and audit board, subject to instructions of the Executive Board, and in case of disagreement between them and the Secretary, their decision shall be final except it be reviewed by the Executive Board.

3. Exhibition space shall be designated in square feet. The charge for space shall be as follows:

Minimum charge \$20.00

Flat rate, per square foot....40 cts.

Exhibition space shall be limited to six feet six inches above the floor, except for plants, greenhouse structures or other exhibits which necessarily extend to a greater height. Plant and cut flower exhibits may be also built up to any height authorized by the Superintendent. All exhibits, except as above specified, which extend above six feet six inches in height, shall be charged 20 per cent. additional, on the exhibit. All signs must be kept within the space limit. Where tables are against the wall, wall space up to six feet six inches above the floor and of the length of the table, will be furnished the exhibitor without extra charge. Wall exhibits extending above this height will be charged for the additional space, at wall space rates. Signs on the wall, or elsewhere, shall not extend higher than six feet six inches above the floor in any exhibit.

Wall space, without floor or table space, or when exceeding in dimensions the amount allowed with the exhibition space, shall be charged as follows:

Minimum charge \$8.00

Flat rate, per square foot....15 cts.

Wall exhibits shall not project over one foot from the wall.

Exhibitors' signs must be kept within the limits of wall space.

Exhibitors must furnish at their own expense all tables, cloth and other accessories and incidentals. The Secretary will be willing, so far as his other duties will permit, to assist exhibitor in securing tables and other needed articles; but neither the Secretary nor the Society will pay for or assume any financial responsibility for the purchase or placing of such articles.

Roll top desks will be furnished to those requiring them at a rental of \$5.00 each.

All signs shall be uniform in character and be furnished by the Superintendent of the Exhibition, at a cost not to exceed \$3.00, and no other signs to be permitted.

Charges for freight or expressage will not be paid or guaranteed for exhibitors. Goods shipped, charges collect, will be refused unless the owner is on hand to pay the charges.

4. Payments for space. Twenty-five per cent. of the total amount shall be paid on signing the contract and the balance before the exhibitor takes possession. Neither the Superintendent nor the Advisory Committee shall have power to suspend or change the above requirements as to payments.

5. Exhibition classes to be arranged as follows:

A.—Plants.

B.—Cut Blooms.

C.—Boilers and Heating Apparatus.

D.—Greenhouse Structures.

E.—Florists' Supplies (including fancy earthenware).

F.—Bulbs, Seeds and Garden Requisites.

G.—Miscellaneous.

6. Exhibitors showing novelties or other improved devices which they wish to have examined by the Judges for such special notice or award as they are deemed worthy of, shall make an itemized entry thereof with the Secretary in advance. Firms or Corporations desiring their exhibits considered for award must state the name of

a member of the firm or company who is a member of the Society.

7. The President shall appoint in advance of the convention, the following Judges.

Three for Classes A, B and F.

Three for Classes C and D.

And three for Classes E and G,

who shall serve without compensation. They shall examine specially entered exhibits and make detailed reports thereon promptly to the Secretary on the afternoon of the first day of the convention. The Judges are authorized to recommend to the Executive Board any exhibits they deem worthy for award of the Society's Medals, such exhibits to be of unusual merit, but such action not to be made public until passed upon by the Executive Board.

8. For exhibits deemed worthy thereof, diplomas of three grades may be given as follows: Certificate of Merit, Honorable Mention, Highly Commended.

9. No distinction as "First," "Second," "Best," or "Largest," or other mention indicating comparisons with other exhibits shall be made, and diplomas of equal value may be awarded to several exhibits in the same class.

10. Each award must be accompanied by a statement indicating on what special points of excellence it was based.

11. In case any article or device has received an award at a previous S. A. F. exhibition, awards shall cover subsequent improvements only.

12. No award shall be made covering the quality of seeds, fertilizers, plants and other articles of such a nature on which an intelligent opinion cannot be had without a practical test.

None but flower pots conforming to the Society's standards will be considered for award by the judges.

13. No award shall be made to exhibitors who are not members of the Society of American Florists and Ornamental Horticulturists.

All protests and complaints must be presented in writing before the close of the exhibition, and complaints or protests not so made will not be considered.

14. The matter of opening or closing the exhibition will be left to the discretion of the Executive Board.

15. Exhibits not in position before 1.00 p. m. of the first day of the convention, may be excluded from mention in the Superintendent's Report or consideration by the judges.

16. The exhibition shall be open not less than two hours before the opening session, to remain open until 10 P. M. each day except as provided in Section 14.

17. All articles exhibited must be left in place until the close of the business session of the Convention which shall be 10 o'clock P. M. on the third day.

18. While the Society will exercise all due care to safeguard the exhibits, it will not assume any responsibility or liability for any loss or damage to any of the exhibits.

19. The selling of goods by persons not having engaged space shall be prohibited unless such person or firm shall have secured a permit or license from the Secretary, the same to cost not less than twenty dollars (\$20).

20. When more than one exhibitor joins in the same space there shall be an additional charge of \$20 for each additional exhibitor.

21. The Executive Board will make such further rules as it may deem necessary for the proper conduct of the exhibition.

22. All adjustments not covered by rules or published action of the Executive Board shall be referred to that Board.

23. To protect the floor from damage by water, platforms and saucers must be placed under exhibits of plants.

Meeting of the Executive Board.

President Robert C. Kerr authorizes me to call a meeting of the executive board to be held in New York, March 16th and 17th, 1917.

JOHN YOUNG, Secy.

February 8th, 1917.

CLUBS AND SOCIETIES

AMERICAN ROSE SOCIETY.

Meeting of the Executive Committee.

The Executive Committee of the American Rose Society met in Philadelphia on the 8th of February to take up matters pertaining to the coming show. A list of names for judges was presented and the same will be communicated with, requesting their services as judges at the spring exhibition.

The premium list is growing by the addition of some special premiums, and the interest that is being taken to make this a great show certainly warrants the belief that there will be nothing lacking for a great popular exhibition. The returns from the call for 50 per cent. of the guarantee fund have been very satisfactory. Application was made for the registering of four new roses, which was submitted to the committee for report.

The Portland Rose Test Garden which has been receiving some careful attention for several months past, was brought forward showing that on the 11th of January, 1917, there met in the city of Portland, Ore., a group of people representing ninety-nine different organizations of the city, the Royal Rosarians, the Portland Rose Society, the Portland Chamber of Commerce, the Portland Floral Society, The Rotary Club, the Research Club, the American Institute of Architects, the Parents' and Teachers' Association, etc., who organized themselves into the Portland Association National Rose Test Garden. This organization was promised the co-operation of the city government of Portland through its park department, and is now an established organization ready for work.

This movement for a rose test garden in Portland has been encouraged from the start by the American Rose Society, the executive committee of which at their meeting in Philadelphia on Feb. 8th decided unanimously to designate Portland, Ore., as the official Rose Test Garden of the Pacific Northwest, and to co-operate with the local organization appointed Mr. Currey, Mr. Clark and Mr. Tucker, who, together with the Portland Association and the City Government of Portland, will formulate plans for the location and government of the garden and provide rules and regulations for all tests and contests.

The membership dues for 1917 were reported, by the secretary, as coming in finely. There are about 400 associate members now on record, and a ticket of admission to the coming show is forwarded to each member as the dues are paid.

Robt. Pyle presented an invitation from Newport, R. I., to hold an exhibition of outdoor roses on the 4th of July next. It was considered best to defer action on this matter until certain details pertaining to the same could be obtained.

Representatives from the leading firms in Philadelphia were present at the meeting.

BENJAMIN HAMMOND, Secy.

Beacon, N. Y.

Meetings Next Week

Monday, Feb. 19.

Detroit Florists' Club, Bemb Floral Hall, Detroit, Mich.
Houston Florists' Club, Chamber of Commerce Rooms, Houston, Tex.
New Jersey Floricultural Society, Orange, N. J.

Tuesday, Feb. 20.

Gardeners' and Florists' Club of Boston, Horticultural Hall, Boston, Mass.
Gardeners' and Florists' Club of Ontario, St. George's Hall, Toronto, Can.
Minnesota State Florists' Association, Minneapolis, Minn.
Pennsylvania Horticultural Society, Horticultural Hall, Philadelphia, Pa.

Wednesday, Feb. 21.

Rhode Island Horticultural Society, Public Library, Providence, R. I.
Tarrytown Horticultural Society, Tarrytown, N. Y.

Friday, Feb. 23.

Connecticut Horticultural Society, County Bldg., Hartford, Conn.
Monmouth County Horticultural Society, Red Bank, N. J.
Pasadena Horticultural Society, Pasadena, Calif.
People's Park Cottage Gardeners' Association, Paterson, N. J.

Saturday, Feb. 24.

Dobbs' Ferry Gardeners' Association, Dobbs' Ferry, N. Y.

CHICAGO FLORISTS' CLUB.

At the February meeting of the Chicago Florists' Club Ella Grant Wilson, of Cleveland, Ohio, gave a very interesting talk on advertising and publicity. James H. Burdett, Mr. Ekstrom, Mr. O'Tool and Mr. Nauman gave some good talks on the same subject. Poehlmann Bros. exhibited a very nice collection of orchids, including a vase of Phalaenopsis Schilleriana. The Publicity Committee was re-appointed to suggest advertising for Easter. Duncan Robertson was elected a member, and the following applications were received: M. Wright, John Sinner, Chas. Nienams, Geo. Kastalnik, Arthur M. Luedtke and T. E. Waters. There was a very large attendance; in fact, one of the best meetings the Chicago Florists' Club has ever had. The Club decided to make the March meeting a Novelty Night.

FLORISTS' HAIL ASSOCIATION.

Assembly Bill No. 16 of the New Jersey legislature to extend the corporate existence of the Florists' Hail Association for thirty years has passed the House, and is now on the calendar of the Senate for future action. Assemblyman Walter G. Winne was the sponsor for the measure and to him the F. H. A. is under obligation for the rapid transit of the bill through the lower House.

JOHN G. ESLEK, Secy.

NEW YORK FLORISTS' CLUB.

The February meeting of the New York Florists' Club was well attended and full of thrills, in which Philip Kessler's commissary department figured high. The greater part of the proceedings were committee reports and deliberations on various important matters having to do with the approaching International Exhibition, the annual dinner and the S. A. F. Convention. Over ten thousand trade tickets have already been sold for the "International." The annual dinner is to be held at the Biltmore. Nineteen new members were admitted and eleven more were proposed. The Club has never been in such splendid condition for heavy responsibilities such as it has to meet this year, Secretary Young's report showing a membership approaching five hundred and a treasury balance approximating \$15,000. David M. Roth, memory training expert, gave an interesting talk on his system. Richard Vincent, Jr., president of the American Dahlia Society, addressed the meeting on matters of current interest. J. Harrison Dick told of the experiences of the visitors to Indianapolis, and a vote of thanks was extended to Lon. Hafner, of the N. Y. C. R. R., for courtesies and attention en route. Greetings were received from F. Marquardt, who is now enjoying the attractions of sunny Florida.

The exhibition was the best seen at the Club for a long time. Carnations were superb and no less than six preliminary certificates were awarded. These were as follows: "Laddie," 88 points; "Doris," 85, and "Rosalia," 85, all exhibited by S. J. Goddard, of Framingham, Mass.; "Cottage Maid," 88 points, from Cottage Gardens Co., Queens; "Lucy," 85 points, from Flora Hill Gardens, Chatham, N. J.; "Olive Whitman," 85 points, from M. Matherson, Baldwins, N. Y. Thanks were voted for Seedling 46 from Flora Hill Gardens, "Cornell" from Ira Marvin, Wilkes-Barre, Pa., "Mrs. John F. Marsden" from J. F. Marsden, Far Rockaway, and Enchantress sport from F. B. Abrams, Blue Point, with a request to see the two last named again. Thanks were also given to Robert Simpson, Clifton, N. J., for a sport from the rose J. J. L. Mock and to Florex Gardens, North Wales, Pa., for rose September Morn.

CONNECTICUT HORTICULTURAL SOCIETY.

The bi-monthly meeting of this society was held in the county building, Hartford, on Friday evening, Feb. 9. John F. Huss exhibited cyclamen and primulas. A committee was appointed to make arrangements for the June Flower Show. Mrs. Wilhelmina Seliger submitted a paper translated from a German garden magazine on the culture and habits of cyclamen and primroses, which was read by the secretary. A vote of thanks was given to Mrs. Seliger and to Mr. Huss for his exhibits.

ALFRED DIXON, Secy.

PITTSBURGH FLORISTS' AND GARDENERS' CLUB.

The meeting of February 6th was largely attended. The election of officers resulted as follows, Messrs. A. A. Leach and Neil McCallum withdrawing their names as candidates for the offices of president and secretary, respectively:

Carl Becherer, president; E. C. Reineman, vice-president; T. P. Langhans, treasurer; E. J. McCallum, secretary; W. A. Clarke, assistant secretary; P. S. Randolph, C. H. Sample and A. Frishkorn, executive committee.

This meeting marked the completion of fifteen years' service for the retiring secretary, H. P. Joslin, during which time he had missed but one meeting. He received a rising vote of thanks.

There was considerable discussion on the merits of cyanide of potassium as a fumigant; one or two of the private gardeners reported good success with it, but one of the largest commercial growers spoke strongly against its use as too dangerous.

Some very fine flowers were shown. Herman Rapp, Leetsdale, Pa., received cultural commendation for primulas; Wm. Thomson, Jr., Sewickley, cultural certificate for primulas. Bureau of Parks, Northside, Pittsburgh, a cultural certificate for cyclamen; Jno. Jones, Sewickley, certificate of merit for pot of cyclamen having 78 open flowers—a grand sight; Bureau of Parks, Schenley Park, vase of *Amaryllis* hybrids, magnificent blooms on thick stems 3 ft. long, a cultural certificate.

Messrs. Loew and Morgan, who had attended the carnation convention at Indianapolis, did not report any outstanding novelties, but a good collection of blooms. They were very enthusiastic in regard to E. G. Hill's new roses which they had an opportunity to inspect.

Carl Becherer and E. J. McCallum were appointed a committee to arrange for lecture to be given at the next meeting by A. A. Coggeshall of Carnegie Institute on the Cliff Dwellers; also for the ladies to be invited and a lunch to be given after the lecture. It was suggested that it would be a good thing to arrange for the National Association of Gardeners and the Chrysanthemum Society to hold their meetings in Pittsburgh in 1918 at the same time. H. P. JOSLIN.

NORTH SHORE (ILL.) HORTICULTURAL SOCIETY.

"Insects and bugs injurious to plant life and the best methods of control" was the subject upon which Prof. D. K. McMillan, assistant to the State Entomologist of Urbana, Ill., spoke to the North Shore Horticultural Society of Lake Forest, Ill., on Thursday, January 25th.

The members of the Society were all invited to Melody Farms, the estate of J. O. Armour, by the superintendent, Thomas W. Head, as it was the opening night of the new reading and recreation room which Mr. Armour had built for the men employed on the estate.

The lecturer mentioned the thousands of dollars of damage done every year to one crop and another by injurious insects, which by proper ef-

AMERICAN SWEET PEA SOCIETY.



Exhibited by Waldo Rohnert at San Francisco Exhibition, 1916.

forts could be considerably curtailed even to the extent of reducing the loss of 50 per cent. of its present dimensions. The scourge of the corn belt in recent years, known as the cinch bug could be easily controlled by throwing up a barrier, around any of the corn areas, of two or three furrows, smoothing the same and a line of tar or creosote laid evenly on the smoothed furrows preventing the in-wads of the bug.

Professor McMillan spoke on quite a number of insect pests prevalent among truck gardeners in Cook county and in some of the West Side parks and also on some of the bacteria for which some insects act as the intermediary. CLARK M. TWINNEY.

INTERNATIONAL FLOWER SHOW POSTER.



Herewith is a reproduction of the rather grotesque design adopted for a poster and envelope sticker to advertise the International Flower Show in New York. It is printed in colors. Anyone wishing to get a supply can be accommodated on application to Secretary John Young.

SOUTHAMPTON HORTICULTURAL SOCIETY.

At the regular meeting of this Society, held on Thursday, Feb. 1st, much interest was shown in three exhibits of evergreen, deciduous and berried shrubs put up for competition, and for which J. Cassidy Wainscott was awarded first prize. L. McRobbie from Swan River Nursery, Patchogue, gave an instructive address on the varieties exhibited.

Some well grown carnations were also shown by Mr. Cassidy, for which he was awarded a certificate of merit. An exhibit of more than usual interest was put up by S. R. Candler in some very fine sprays of the beautiful *Skimmia japonica*, which, as Mr. Candler explained, is quite hardy in this section and deserves to be more generally grown.

Mr. Candler also showed some well berried sprays of *Ilex crenata*. It was agreed to hand over these exhibits to the botany class of Southampton High School and Southampton Hospital.

The annual flower show will be held on July 25th and 26th in tents on the Park grounds at the head of Lake Agawam.

J. DICKSON, Cor. Secy.

HOLYOKE AND NORTHAMPTON FLORISTS' AND GARDENERS' CLUB.

The regular meeting was held at G. H. Sinclair & Son's establishment, Holyoke, on Feb. 6. E. J. Canning, fresh from the recent convention of the New England Nurserymen's Association, aroused keen interest by an instructive talk on the proposed bill to entirely prohibit plant importations. It was felt that such a drastic measure, if allowed to pass, would seriously affect the nurserymen and florists without achieving the supposed objects of the bill. President Strugnell exhibited a specimen cyclamen in an eight-inch pot with over eighty fully expanded flowers, and it thoroughly deserved the certificate of merit awarded. G. H. Sinclair had a very nice display of carnations, sweet peas, snapdragon, mignonette and forget-me-not. D. J. Gallivan showed a vase of carnation Gorgeous. H. E. D.

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FLORISTS CLUB OF WASHINGTON.

The Florists' Club held its monthly meeting last week. The attendance was small, the unprecedented cold weather demanding the presence of the growers at the greenhouses. The store interests, however, were well represented. Under these conditions it was decided to renominate all of the present officers for the ensuing year. The annual election will be held on March 6. Some little discussion was had on the subject of taxation, the club having before it the proposal of Congress to place a tax of eight per cent. on all businesses making a profit per annum of \$5,000 plus eight per cent. Among other matters discussed was the action of the House Committee on Library in the matter of the selection of a national flower.

HORTICULTURAL SOCIETY OF WESTERN PENNA.

A meeting of the above named society will be held on Tuesday evening, Feb. 20, at 7.45 o'clock in the East Liberty Carnegie Library, Station street. The subject of the evening will be Carnations and Seasonable Flowers. It is expected that there will be some of the newer varieties of carnations exhibited. Bring along what you have in carnations or seasonable flowers so as to make the meeting interesting and give us something to talk about. ERNEST R. BOLTON, Sec.

CLUB AND SOCIETY NOTES.

At the meeting of the Stamford (Conn.) Horticultural Society held on Friday evening, Feb. 2nd, a very in-

teresting paper on the Culture of Chrysanthemums was read by Adam Patterson. Mr. Morrow read a paper on Budding, Grafting and Arching. Among the exhibits were the following:

Seedling carnations by A. Wynn, highly commended; mixed carnations, cultural certificate; sweet peas Yarrawa by A. Pederson, cultural certificate; Shawyer roses by J. Foster, cultural certificate; Carnations Matchless, highly commended; flowering and foliage plants by P. J. Burns, Adiantum Farleyense Regina by G. Cannon, Streptosolon Jamesonii and Primula malacoides by J. Wynn and Primula malacoides by A. Pederson, each a vote of thanks. Numerous vases of artistic design were offered by G. Cannon. At the close of the meeting refreshments were served, and a very interesting musical entertainment was arranged by Miss Helen Smith.

F. S. HARTWRIGHT, Cor. Secy.

The topic at the next meeting (February 20) of the Gardeners' and Florists' Club of Boston will be the Carnation. A fine display is expected.

NEWS NOTES.

Calla, O.—The Calla Greenhouses & Garden Company has been purchased by Ernest E. Sigle.

Billerica, Mass.—Gustave Thommen, who has made an enviable reputation as carnation grower for Backer & Co. for the past seven years, has resigned his position and moved to Reading, where he has purchased a farm. Milford R. Irving will be in charge of the Backer greenhouses now.

During Recess

Southampton Horticultural Society.

The annual banquet was held in the Commercial Hotel, Southampton, N. Y., on Thursday, Feb. 8th, Chas. F. Guilloz, president of the society, presiding. The attendance of members and their wives was up to its usual standard. The seed stores were well represented, amongst whom were J. Morrison, from Weeber & Don; W. C. Rickards, from J. M. Thorburn & Co.; D. A. Dean, from Arthur T. Boddington Co.; W. A. Sperling, from Stumpp & Walter Co. The banquet committee, Messrs. Candler, Campbell and Malcolm, exceeded all previous efforts. The repast was thoroughly enjoyed and the tables were beautifully decorated with roses.

The president made a few remarks and presented the retiring president, M. McLaughlin, with a gold watch-charm as a small recognition from the society. Speeches were omitted, an entertainer being substituted and dancing was enjoyed. J. DICKSON, Cor. Secy.

Boston Bowlers' Record Up to Date.

	Won	Lost
McDonald & McAlpine.....	45	11
Galvin	42	14
Waban	36	20
Flower Exchange.....	35	21
Flower Market.....	33	23
Carbone	27	29
N. E. Fl. Sup.....	19	37
Robinson	18	38
Penn	14	42
Snyder	11	45

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GENERAL MERKEL—4 ft. Rich scarlet, with a deep golden edge. Superior to Madame Crozy in every respect. 40c. per doz., \$2.25 per 100, \$20.00 per 1000.

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ROSEA GIGANTEA—3½ ft. A prodigious bloomer, the giant flower heads are soft rose similar but superior to Mrs. A. F. Conard, handsome green foliage. Award of Merit by Royal Horticultural Society, London, Eng. \$1.50 per doz., \$10.00 per 100, \$90.00 per 1000.

The Best Yellow,

GUSTAVE GUMPPER—4 ft. Rich, pure golden yellow, without spots, does not bleach in the sun. Green foliage, far superior to Florence Vaughn, Richard Wallace or Johanna Kanzleiter. 60c. per doz., \$3.75 per 100, \$35.00 per 1000.

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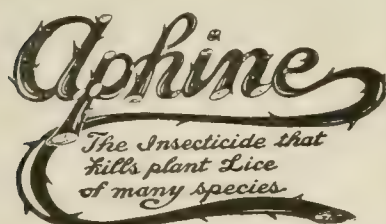
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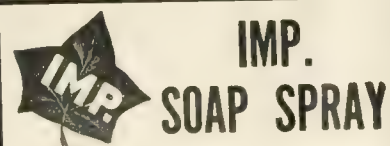
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CATALOGUES RECEIVED.

E. E. Stewart, Brooklyn, Mich.—Wholesale Price List of Gladioli.

J. H. Bowman, Paterson, N. J.—Dahlias De Luxe. Novelties mainly.

J. C. Burns, San Rafael, Cal.—Dahlia Catalogue for 1917. Illustrated.

Stark Bros. Success Orchards, Louisiana, Mo.—Red apples on every page.

Martin Kohankie, Painesville, O.—Wholesale List of Ornamental Nursery Stock.

The Imlay Company, Zanesville, Ohio—1917 Catalogue of Seeds, Plants and Flowers.

Westerbeek & Klyn, Sassenheim, Holland—Wholesale List of Dahlias, Special Offer.

Harrison's Nurseries, Berlin, Md.—Catalogue of Fruit and Ornamental Nursery Stock.

F. W. Kelsey Nursery Company, New York City—"Everything Worth Planting." Advance offer.

B. Hammond Tracy, Wenham, Mass.—Cedar Acres Gladioli. A model catalogue of "Bulbs that Bloom."

L. E. Williams, Exeter, N. H.—Price List for 1917 of Collected Native Trees, Shrubs and Plants. A good list.

John H. Umpleby, Lake View, N. Y.—Derby Gardens Gladioli 1917. Wholesale List for Florists and Growers.

Wagner Park Nursery Co., Sidney, Ohio—A well filled list of hardy ornamental shrubs and trees, herbaceous perennials, etc.

Gill Bros. Seed Co., Portland, Ore.—Seventh Annual Catalogue. Flower and vegetable seeds, bulbs, trees, shrubs and plants.

Bessie Boston Dahlia Farm, San Mateo, Cal.—1917 Grand Prix Dahlias. A well printed, illustrated dahlia list of much interest.

W. W. Eberle, Albany, N. Y.—Seed Annual, 1917. An attractive book bound in modest grey and well illustrated with half-tone plates.

Wm. Elliott & Sons, New York—1917 List of Wholesale Quotations on Seeds, Bulbs, Implements and Florists' Stock, for the Trade Only.

Roman J. Irwin, New York City—Florists' Wholesale Catalogue of Plants, Cuttings, Bulbs, Flower Seeds and Supplies for 1917. Illustrated.

Currie Bros. Co., Milwaukee, Wis.—Farm and Garden Annual, Spring, 1917. Cover in colors; all departments profusely illustrated.

Wm. Henry Maule, Inc., Philadelphia, Pa.—Maule Seed Book, 1917. A well-established old favorite. Strong on advanced quality vegetables. Covers in color.

L. Daehnfeldt, Odense, Denmark—Complete Wholesale Catalogue for the

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Storrs and Harrison Co., Painesville, Ohio—Spring Edition 1917. A comprehensive and well arranged presentation of the plant and seed specialties of this well-known firm.

Frank M. Thomas, Twin-Larches Nursery, West Chester, Pa.—Flowers for the Hardy Garden. A catalogue of forty pages only but it is ideal in its text, illustrations and make-up.

Thos. J. Grey Co., Boston, Mass.—General Catalogue, Seeds, Plants, Implements, 1917. A thoroughly good catalogue, attractively illustrated and conveniently indexed. Has a nice list of novelties.

A. E. Kunderd, Goshen, Ind.—Ruffled Gladiolus, 1917. This catalogue is unusual in that it lists only the introductions of this noted originator. It is embellished with handsome plates of varieties of outstanding merit and has throughout an engrossing interest for any gladiolus fancier.

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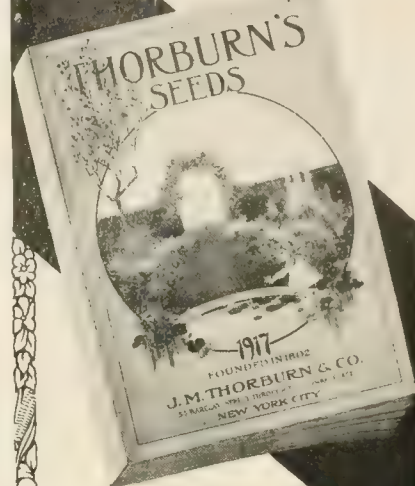
Any person, man or woman—over the age of sixteen and with the requisite education and intelligence can be-

come a junior operator. The Company provides the necessary instruction free. When the junior grade is reached, employment is assured.

In the larger cities, telegraph schools are already maintained for teaching operators. These, however, have not been able to turn out a sufficient number of trained men and women to wholly meet the present demands. It is now sought to give persons in smaller places as well as the cities an opportunity to study telegraphy either by exclusive application or in conjunction with their other employment.

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An Important Post Office Ruling.

Seeds put up in opaque-sealed envelopes, properly labeled, would appear to constitute "proprietary articles of merchandise and be mailable at 4th class rates" as set forth in Sec. 469, Par. 5, instead of requiring transparent envelopes (Par. 4). This is a new ruling obtained Dec. 20th, last, from the Third Assistant Postmaster General's Office by Howard M. Earl, of W. Atlee Burpee & Co. and member of the Executive Committee of the American Seed Trade Association.

One Week's Imports.

Imports at the port of New York, of horticultural material, for the week ending Feb. 2, were recorded as follows:

Bulks—Netherlands, \$3,341; England, \$81; Japan, \$1,469.

Plants—France, \$800; Netherlands, \$1,318; England, \$977; Ireland, \$35; Brazil, \$121; Japan, \$32.

Red clover seed—France, \$12,861.

Clover seed—France, \$1,482.

Other seeds—Denmark, \$11,130; France, \$21,489; Netherlands, \$1,980; Portugal, \$13,335; England, \$36,236; British East Indies, \$3,337; Italy, \$1,853; Spain, \$3,671; Panama, \$38.

Nitrate of soda—Chile, \$12,983.

Dried blood—Argentina, \$9,853.

Other fertilizers—Argentina, \$5,939.

The loss at the recent fire in the St. Louis Seed Co.'s establishment is given as \$100,000, fully covered by insurance.

PATENT GRANTED.

1,214,597. Lawn Edger. Christian L. Schneider, Davenport, Iowa.

New London, Conn.—Ed. Jenkins, of Lenox, Mass., addressed the New London Horticultural Society on Feb. 8, on the Culture of Flowers, Fruits and Vegetables. Carnations and freesias from Stanley Jordan and lilies from President Rough were on exhibition.

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8 lb. for \$1.00

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NORTHERN GREENHOUSE GROWN SEED

1,000 Seed	\$3.50	10,000 Seed	\$30.00
5,000 Seed	15.50	25,000 Seed	72.50

Special Prices on Larger Quantities

ASPARAGUS HATCHERI SEED

100 Seed	\$.75	500 Seed	\$3.00
		1,000 Seed	\$5.00

ASPARAGUS SPRENGERI SEED

1,000 Seed	\$.75	10,000 Seed	\$5.50
5,000 Seed	3.00	25,000 Seed	12.50

ALSO ALL OTHER SEASONABLE SEEDS,
BULBS AND SUPPLIES. SEND FOR
WHOLESALE CATALOG.

HENRY F. MICHELL CO.

518 Market Street

PHILADELPHIA



SEEDS for the FLORIST

ASTERS QUEEN of the MARKET.

The best extra early variety, large, double flowers, on long stems, in colors: Crimson, Dark Blue, Light Blue, Rose Peach Blossom, White.

Trade Packet, 20c., Oz., 75c.

Sweet Peas, Cyclamen, Primulas, Lily of the Valley, from Our Own Cold Storage Plant.

Our Trade List Mailed on Application.

FOTTLER, FISKE, RAWSON CO., THE SEED STORE BOSTON
Faneuil Hall Square

"Seeds with a Lineage" All Varieties
Thoroughly tested at our trial grounds, Raynes
Park, London, England. Send for Catalogue
CARTERS TESTED SEEDS, Inc., 166 Chamber of
Commerce Bldg., Boston, Mass.

PUBLICATIONS RECEIVED.

The Sweet Pea Annual for 1917, published by the National Sweet Pea Society (British), has been received. This publication, edited by J. S. Brunton, is the official organ of the Society, of which Henry D. Tigwell, Greenford, Middlesex, is secretary. Notwithstanding the terrible stress and strain of the times, this book is fully the equal of any of its predecessors and it shows that the Sweet Pea Society, although bereft of many members and beset with many difficulties, in common with other institutions, arising out of the titanic struggle on the Continent, has achieved a creditable measure of success. The reports given indicate that the trials of novelties were never more successfully conducted and the many beautiful full-page illustrations show that the exhibitions of the past year reached a high standard of excellence. There are twenty-seven half-tone plates, including portraits of the late W. Atlee Burpee and George W. Kerr, president of the American Sweet Pea Society. The book is generously supplied with advertisements of the trade.

ANNUALS AND BIENNIALS. The Best Annual and Biennial Plants and Their Uses in the Garden. By Gertrude Jekyll, with Cultural Notes by E. H. Jenkins. This is the latest addition to the popular Country Life Library, published at the office of Country Life, Ltd., London, and in this coun-

try by Charles Scribner's Sons, New York. Miss Jekyll is widely known as the author of "Color Schemes for the Flower Garden," "Wall and Water Gardens," "Gardens for Small Country Homes," each of which has passed through several editions. As with our own Mrs. Francis King, color harmonies and sequences in flower garden arrangement is the key-note of much of her writings and, in a like degree with Mrs. King is she a substantial friend to the catalogue seedsman for their specialties and improved forms are given careful scrutiny and, when found acceptable, generous publicity. The many uses of annual and biennial plants in pictorial flower gardening are well covered in the book before us and the descriptions will be found very helpful by the amateur reader. There are some useful lists of selections for various purposes and aspects, a chart of color and height and 44 full page pictures of which three are in natural flower colors. The price of the book is \$3.00 net.

SEEDS, BULBS, PLANTS

AND

Florists' Necessities

AMERICAN BULB CO.

172 N. Wabash Ave., Chicago, Ill.

BULB STOCK

DWARF DOUBLE PEARL TUBE-ROSES. Special prices on application.

CALADIUM ESCULENTUM BULBS.

LILIUM MULTIFLORUM, 7 to 9, 9 to 10 and 10 to 11. Attractive prices on application.

LILIUM FORMOSUM, 7 to 9, 9 to 10 and 10 to 11. (Black stem.)

Please tell us how many you can use and we shall make prices accordingly.

Selected strains of Ageratum, Alyssum, Aster, Begonia Erfordi, Calendula Meteor, Prince of Orange, Candytuft, Celosia, Centaurea, Cobaea scandens, Cosmos, Gypsophila, Lobelia, Petunia, and Verbena. Special prices on the above on application.

J. M. THORBURN & CO.

53 Barclay Street
NEW YORK CITY

KELWAY & SON SPECIALIZE IN SEEDS

(personally selected strains)

WHOLESALE ONLY

Write for Special Prices, Spot or Forward

Only Address, LANGPORT, Eng

J. BOLGIANO & SON
Careful Seed Growers For
99 Years

Send for Our 1917 Wholesale Prices
To Florists and Market Gardeners
BALTIMORE, MD.

KEYSTONE SNAPDRAGON

Best Winter Flowering Pink Snapdragon on the market. Per pkt., \$1.00; 6 pkts. for \$5.00.

S. S. SKIDELSKY & CO.
PHILADELPHIA, PA.

My new Price List of
WINTER-ORCHID-FLOWERING SWEET
PEA SEED

Has been mailed. If you have not received a copy, send me postal. Part of new crop will be ready early in July.

ANT. C. ZVOLANEK
Sweet Pea Ranch Lompoc, Cal.

COLD STORAGE GIGANTEUMS

WRITE FOR PRICES
YOKOHAMA NURSERY CO.
Woolworth Bldg., New York

READY NOW Buddleia Farquharii

This new Winter-flowering Lilac was raised in our nurseries and is the first authentic hybrid in the genus. The flowers are pale pink, delightfully fragrant and are borne in long, cylindrical, tail-like clusters. It is of easy culture, flowers during December and January and is valuable for conservatory and house decoration and as a cut-flower.

Each, \$1.00; doz., \$10.00; per 100, \$75.00

Wholesale Prices on Application

R. & J. FARQUHAR & CO., Boston, Mass.

LEONARD'S SEEDS and SEED SERVICE

FOR SALE BY

LEONARD SEED COMPANY, Chicago, Ill.

LILIUM GIGANTEUM

NEW CROP NOW READY.

	Per 100	Per 1000
7 to 9 in. (300 bulbs to case)...	\$5.50	\$50.00
8 to 9 in. (250 bulbs to case)...	7.00	65.00
8 to 10 in. (225 bulbs to case)...	9.00	80.00
9 to 10 in. (200 bulbs to case)...	10.00	95.00

A. HENDERSON & CO.

211 N. State St., Chicago.

Burpee's Seeds PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT.

THOMAS J. GREY COMPANY

SEEDS, BULBS AND IMPLEMENTS
WHOLESALE AND RETAIL.
Reselected Strains in Seeds.
Improved styles in Implements.
Catalogue upon application.
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Importers and Growers of
SEEDS, BULBS, PLANTS, &c.
98 Chambers Street, New York

ROMAN J. IRWIN

108 West 28th St., NEW YORK

SPECIAL OFFER

LILIUM FORMOSUM	
8/11, 225 to a case.....	\$80.00 per 1000
9/10, 200 to a case.....	85.00 per 1000
11/13, 100 to a case.....	15.00 per case
LILIUM FORMOSUM—Black Stem	
8/10, 200 to a case.....	\$80.00 per 1000
9/10, 180 to a case.....	90.00 per 1000
11/13, 100 to a case.....	16.00 per case

Write for Complete Stock Circular.
SATISFACTION GUARANTEED.

LILIUM FORMOSUM LILIUM HARRISII LILIUM GIGANTEUM

Prices on Application. Write for 1916
Bulb Catalog.

JOSEPH BRECK & SONS' CORP.
47-54 North Market St., Boston, Mass.

W. E. MARSHALL & CO. SEEDS, PLANTS AND BULBS Horticultural Sundries

166 W. 23rd St., NEW YORK

GARDEN SEED

BET, CARROT, PARSNIP, RADISH and
GARDEN PEA SEED in variety; also other
items of the short crop of this past season.
as well as a full line of Garden Seeds, will
be quoted you upon application to

S. D. WOODRUFF & SONS
82 Dev St., NEW YORK and ORANGE, CONN.

ALEX. McCONNELL611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

*Cost of Cabling Foreign Deliveries
Must be prepaid*

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.



"The Telegraph Florist"

Member of Florists' Telegraph Delivery

124 TREMONT ST.
BOSTON

FOR

KANSAS CITY

Transfer Your Orders to

SAMUEL MURRAY

1017 Grand Avenue

Members Florists' Telegraph Delivery

Orders for NEW YORK.
Write or Phone to

MAX SCHLING

22 West 59th St.

Adjoining Plaza Hotel

Best Florists in the States as
References.

EUROPEAN ORDERS EXECUTED

Members of the Florists'
Telegraph Delivery.

Established 1874

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FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address Dardsflor.

DAVID CLARKE'S SONS

Deliver orders from any part of the country to
New York City

Or OUT-GOING STEAMERS

Write or Telegraph

2139-2141 Broadway, - New York
Telephone 1562-1563 Columbus

Of Interest to Retail Florists

NEW FLOWER STORES.

Beckley, W. Va.—Mrs. C. H. Blain.

Redwood City, Cal.—M. Schmidt (wholesale).

St. Louis, Mo.—F. H. Weber, branch store, further west.

Bend, Ore.—Riverside Florist, M. Keeney, proprietor.

Philadelphia, Pa.—Miss M. C. Lanborn, 923 N. 18th street.

Newark, N. J.—Connolly & Plunkett, succeeding Robert James.

San Francisco, Cal.—California Floral Co., California, near Hyde street.

Amesbury, Mass.—Comley the florist, removing to 24 Market street.

Wakefield, Mass.—Wakefield Conservatories; removing to 394 Main St.

Worcester, Mass.—Thomas Sawyer, successor to Joseph Thayer, 889 Main street.

New York, N. Y.—P. Okkerse & Son, branch store in Breevort Hotel, 5th avenue.

A CO-OPERATIVE ADVERTISEMENT.

FLOWERS FOR VALENTINES

"Flowers are the sweetest things God ever made and forgot to put a soul into."

Thus Henry Ward Beecher paid tribute to the blossoms. And true he was. There is no sweeter, daintier, prettier or more acceptable Valentine than a bunch of choice, fresh-cut flowers, laden with fresh, dewy fragrance.

THE FLORISTS OF WASHINGTON

Offer you a wide selection of choicest blooms, fresh cut, and will guarantee to deliver them anywhere in the United States in perfect condition and on time.

Dainty Bouquets of Cut Flowers, artistic Baskets of Cut Flowers, Growing Flowers and Ferns will be found at all these shops at a range of prices varied enough to meet the wishes of all who are desirous of sending appropriate remembrances on

St. Valentine's Day, February 14th

The foregoing was the substance of a half-page advertisement in display type in a special floral framing, which appeared in the newspapers of Washington, D. C., on Sunday, Feb. 11, signed by

Gude Bros. Co., George H. Cooke, John Sharper, Z. D. Blackstone, Henry Witt, Geo. A. Comley, Ochmiller Floral Co., Inc., C. L. Jenkins & Son, Inc., James F. Pierce, Geo. C. Shaffer, J. D. Blackstone, R. J. Lacey & Son, Arcade Flower Shop, Thomas & Slye.

G. E. M. STUMPP

761 Fifth Ave.

NEW YORK CITY

Member Florists' Telegraph Delivery Asso.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.



GUDE BROS. CO.
WASHINGTON, D. C.

Member Florists Telegraph Delivery

IN THE National Capital

At your service to deliver Flowers or Designs on Order by Telegraph or otherwise. Prompt Reliable Service.

GEORGE H. COOKE

Connecticut Ave. and L St.
WASHINGTON, D. C.

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

Members Florists' Telegraph Delivery

Rochester, N. Y.

**J. B. KELLER SONS,
FLORISTS**

25 Clinton Avenue, N.

Rochester Phone 306. Long Dist. Bell Phone 2786
Members Florists Telegraph Delivery

YOUNG & NUGENT

42 West 28 Street

New York

Members Florists' Telegraph Delivery

A. T. BUNYARD

NEW YORK

413 Madison Avenue at 48th Street.
Also Newport, R. I.

We Guarantee Satisfaction

MEMBER F. T. D. A.

CHICAGO Send Your Orders to WILLIAM J. SMYTH

Member Florists' Telegraph
Delivery Association

Michigan Ave. at 31st Street

Prompt Auto Delivery
Service

THOS. F. GALVIN
INC.
NEW YORK 561 Fifth Ave.
Vanderbilt Hotel
BOSTON 1 Park Street
799 Boylston Street
Deliveries to Steamers and all Eastern Ports

CLEVELAND

A. GRAHAM & SON
5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

WASHINGTON
915 F ST. N. W.
F. H. KRAMER
Auto delivery of Designs and Flowers to
any address in Washington.
Stock and Work First Class

Orders Filled Day or Night for
CLEVELAND
and State of Ohio
Complete Stock. Regular discount to Trade.
KNOBLE BROS.
1896 W. 25th St., Cleveland, O.
Members Florists' Telegraph Delivery Ass'n.

THE SMITH & FETTERS CO.
735 Euclid Avenue
CLEVELAND, OHIO
Flowers of Every Kind in Season

HESS & SWOBODA
-FLORISTS
Telephones 1501 and L 1532.
1415 Farnum St.,
OMAHA, NEB.

S. A. ANDERSON
440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
Stock and prompt deliveries in BUFFALO,
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK
Members of Florists' Telegraph Delivery.

HIGH GRADE PLANTS
For Retail Stores a Specialty
ASK FOR LIST
THOMAS ROLAND. Nahant, Mass.
WORCESTER, MASS.
Randall's Flower Shop
HARRY L. RANDALL, Proprietor.
Mention Florists' Telegraph Association

Flowers by Telegraph

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

Albany, N. Y.—F. A. Danker, 40 Maiden
Lane.
Albany, N. Y.—H. G. Eyres, 106 State
St.
Albany, N. Y.—The Rosery, 23 Steuben
St.
Albany, N. Y.—William C. Gloeckner, 97
State St.
Boston—Thos. F. Galvin, 1 Park St.
Boston—Penn the Florist, 124 Tremont
St.
Buffalo, N. Y.—S. A. Anderson, 440 Main
St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan
Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid
Ave.
Cleveland, O.—Adam Graham & Sons,
5523 Euclid Ave.
Cleveland, O.—Knoble Bros., 1836 W. 25th
St.
Cleveland, O.—The Smith & Feters Co.,
735 Euclid Ave.
Denver, Col.—Park Floral Co., 1643
Broadway.
Detroit, Mich.—J. Breitmeyer's Sons,
corner Broadway and Gratiot Ave.
Houston, Tex.—Kerr, The Florist.
Kansas City, Mo.—Samuel Murray, 1017
Grand Ave.
Los Angeles, Calif.—Howard & Smith,
853 So. Olive St.
New London, Conn.—Reuter's.
New York—J. H. Small & Sons, 505 Mad-
ison Ave., at 52d St.
New York—David Clarke's Sons, 2139-
2141 Broadway.
New York—Alex. McConnell, 611 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—A. T. Bunyard, 413 Madison
Ave., at 48th St.
New York—Dards, N. E. corner 44th St.
and Madison Ave.
New York—Max Schilling, 22 W. 69th St.
New York—G. E. M. Stumpp, 761 Fifth
Ave.
New York—Thos. F. Galvin, Fifth Ave.,
at 48th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415
Farnum St.
Passaic, N. J.—Edward Seery.
Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave., N.
St. Louis, Mo.—Fred C. Weber, 4326-28
Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
Tarrytown-on-Hudson, N. Y.—F. R. Pier-
son Co.
Toronto, Can.—J. H. Dunlop, 8-10 West
Adelaide St.
Washington, D. C.—Gude Bros., 1214 F
St.
Washington, D. C.—F. H. Kramer, 915
F St., N. W.
Washington, D. C.—George H. Cooke,
Connecticut Ave. and L St.
Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop,
3 Pleasant St.

Send Telegraph, Telephone or Mail orders
for florist service in this vicinity to

Howard & Smith
853 SO. OLIVE ST.
Los Angeles, Calif.

Every Order sure to receive
prompt and careful attention.

REUTER'S Members Florists
Telegraph
Delivery

STORES IN

New London and Norwich, Conn.
and Westerly, R. I.

We cover the territory between
New Haven and Providence
ST. LOUIS, MO.

FRED C. WEBER
4326-28 Olive St.

Member Florists Telegraph Delivery Association
NOTICE INITIALS. We have one store only

THE J. M. GASSER COMPANY,
CLEVELAND

Euclid Avenue

The Far-Famed Flowers of
TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP
8-10 West Adelaide St. - TORONTO, ONT.
ALBANY, N. Y.

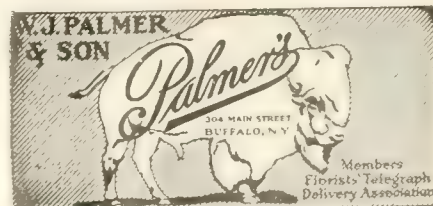
EYRES
Flowers or Design Work
DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER
106 STATE STREET, ALBANY, N. Y.

"THE HOME OF FLOWERS"
The largest cut flower store in America.
Orders for the TWIN CITIES and for all
Northwestern points given prompt at-
tention

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

The Park Floral Co.
J. A. VALENTINE, Pres.

Members Florists' Telegraph Delivery.
DENVER, COLORADO



KERR ORDERS FOR TEXAS
HOUSTON, TEXAS
The Florist Member F. T. D. Association

NEWS ITEMS FROM EVERYWHERE

CHICAGO.

It seems probable at this writing, Feb. 13, that St. Valentine's Day is going to exceed any previous record made as a florists' holiday. It has been steadily gaining in importance for several years and the effect of the special advertising campaign, promoted by Fred Lautenschlager, who by the way, is a past representative of HORTICULTURE, is being felt all over the city. Some of the retail florists have ordered heavily of potted plants and preparations for the day have been second only to those for Christmas. Mrs. Russell rose took the place of American Beauty, now extremely scarce, in more ways than one, for prices ran to \$6.00 per dozen wholesale.

The wholesale florists of Chicago have held two meetings recently, the main object of which was to plan concerted action regarding charges for shipping boxes, etc. The prevailing opinion was to the effect that a reasonable charge should be made. The real outcome of the meeting, however, will be the forming of a permanent organization of the wholesale florists of Chicago, which will make for closer acquaintance and better understanding, when all the details of the business may be discussed and worked out together. Aug. Poehlmann was elected chairman and Allie Zech secretary. A banquet is arranged at the La Salle Hotel on Feb. 16th, when the organization will be perfected and permanent officers elected.

A fire in the Atlas Block, corner Randolph street and Wabash avenue, headquarters for more wholesale florists than any other block in Chicago, caused a great commotion Monday, Feb. 12th, and business was interrupted for several hours as water poured down stairs and elevator shafts. The fire originated on the fourth floor, where the only florist is the California Floral Co. The second floor and basement houses over a dozen florists and for several hours no one was allowed to enter or leave the building. There was really no loss to the florists, but the age of the building and its reputation for not being particularly substantial caused much alarm and all were relieved when the fire was extinguished.

Bulb growers are not placing their orders as quickly as the store men, but are carefully watching the stock now coming into bloom, to see where it can be improved. In hyacinths nothing so far has surpassed La Innocense as best white for pots and pans. Gertrude, the old favorite, is still holding its own in pink, though Lady Derby, Nimrod and some of the new varieties are well thought of here for light shades. The old blue, Grand Maitre seems to be on the decline. In the new blue varieties Bismarck and Capt. Boyton are very promising, making strong growth and the former comes early. In tulips Brilliant Star, a bright early red, Prosperity and Flamingo, bright pink, bid fair to replace Proserpine because their color is more attractive. It is too early to form opinions on many of the new ones which flower later on.

NEW YORK.

C. H. Atkins, of Bobbink & Atkins, is home from his visit to Cuba.

P. L. Bogart is reported as still very ill with no improvement noticeable.

Fred Marquard, of Middle Village, is enjoying the zephyrs at Palm Beach, Fla.

Westerbeck & Klyn, of Sassenheim, Holland, have opened an office at 25 Beaver street.

Philip Breitmeyer, of Detroit, Mich., was a visitor this week on his way home from Cuba.

The New York and New Jersey Plant Growers' Association will "whoop'er-up" on Saturday evening, Feb. 17.

We were pleased to see W. H. Long at the Florists' Club meeting after his serious illness and looking so well, too.

Mr. F. R. Newbold is confined by illness at his New York home and is greatly missed by his fellow workers on exhibition committees.

Bound Brook Nurseries is now well settled down in the new city headquarters at 57 West 28th street, with Mr. Spaulding in charge.

Mr. and Mrs. Charles Schenck celebrated on Monday, Feb. 12, the tenth anniversary of their wedding, at Wallace Hall on West 153rd street. About eighty friends were present.

A. L. Miller proposes a special party from New York to visit the Rose Festival at Philadelphia next March similar to the excursion which was so successful on the occasion of the National Flower Show at Philadelphia.

Very few days pass now without a committee meeting of some kind in the flower district. What with flower shows, annual dinner and S. A. F. convention planning these are busy times for the craft in New York.

W. L. Trumpore, buyer for J. H. Small & Sons, is now able to attend to business, but still shows the effects of his recent suffering and affliction, his wife having died at their home during the time he was himself in the hospital in a serious condition, under-

going a dangerous operation. Widespread sympathy is expressed in the wholesale and retail trade for Mr. Trumpore, where he has been well known and esteemed for many years.

PHILADELPHIA.

William Gibson, late of the Idle Hour Nurseries, Macon, Ga., was a recent visitor. He left on the 20th inst. to occupy a new position with C. P. Mills, retail florist of Jacksonville, Fla.

The executive and local committees of the American Rose Society had a meeting at the Bellevue-Stratford on February 8th. Much important business was transacted and everything in connection with the National Rose Festival seems to be moving along nicely.

CINCINNATI.

Ralph Schlomer has joined C. E. Critchell's force of employees.

Mr. and Mrs. E. G. Gillett are visiting Mr. and Mrs. C. J. Ohmer at West Palm Beach, Fla.

We are glad to report that Geo. Berner, of C. E. Critchell's is greatly improved after his recent operation.

The proceedings of the thirty second annual convention of the Society of American Florists and Ornamental Horticulturists has been received from Secretary John Young. It is the most bulky volume ever sent out by the S. A. F., comprising 444 pages, the reports, including the proceedings of the Houston Convention and of the Florists' Telegraph Delivery Association being given verbatim, the F. T. D. alone filling 118 pages. The illustrations include a portrait of Ex-President Daniel MacRorie and seven full page views of bulb and plant culture at the Cottage Gardens plantations in Eureka, Cal. The report is very complete, and affords a vast amount of information on all departments of the work and objects of the S. A. F. The list of members totals 1,751, of whom 447 are life members and 1,304 annual members. Mr. Young is to be congratulated on the volume and the official fidelity and industry of which its pages are impressive evidence.



SHIPPING GLADIOLUS BULBS FROM CEDAR ACRES, WENHAM, MASS.

Do Your Spring Buying Early AND DON'T FORGET

That when you stock up on Bayersdorfer & Co.'s goods you are getting
THE BEST IN THE WORLD

BASKETS For Plants BASKETS For Flowers BASKETS

In Endless Variety, Home Manufacture and
Imported. Everything in Florists' Requisites.

Stock up now and have the goods to show customers. Send for prices and
see how much you can do with a little money when you go straight to
headquarters—**THE FLORISTS' SUPPLY HOUSE OF AMERICA.**

H. BAYERSDORFER & CO.

Manufacturers and
Importers

1129 Arch Street, PHILADELPHIA, PA.

Write for
Catalogue

AN AGREEMENT FOR MUTUAL BENEFIT.

Several of the leading florists of Buffalo have organized an association, at present under the leadership of S. A. Anderson, for the purpose of maintaining uniform prices throughout the city. A price list is sent to each member every day, covering a full line of flowers. The members have agreed to give a discount of 25 per cent from the price list on anything they purchase from each other. The association was formed because several of the retailers found that it was necessary to raise the prices of flowers in order to meet the growing overhead expense. The association is doing some good community advertising and promises a brilliant future. It would be well for the leading florists of other cities to take notice of this movement for their own good.

Boston—P. L. Carbone, who has gone abroad to purchase pottery antiques, etc., has cabled his family that he arrived safely in France the first of this week. Mr. Carbone was obliged to go on this business trip because of the fire in his store which destroyed so much of his stock of pottery, vases and choice antiques.

REED & KELLER

122 West 25th St., New York

Florists' Supplies

We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

Telephone 2860 Madison Square

WOODROW & MARKETOS

WHOLESALE

Plantmen and Florists

37 and 39 West 28th St., NEW YORK

PERSONAL.

George Howard has concluded his services as gardener at the Gordon Abbott estate, Manchester, Mass.

David Gaus, formerly with John Sykes, has accepted the position of manager for Clayton Weaver, Emaus, Pa.

A. T. Ellison, formerly with Mullanphy Florists, St. Louis, will manage the greenhouses of Wm. C. Smith at Kirkwood, Mo.

The engagement of Nicholas Grillo, greenhouse grower, of Milldale, Ct., and Miss Anna Castaldi, of Milldale Park, has been announced.

Howard McRae, son of Alex. McRae of Providence, has returned to the Mass. Agri. College after a year's practical experience at Cromwell Gardens.

A. P. Crossley, who was recently appointed florist at the N. J. Experiment Station at New Brunswick, has been forced to give up his position on account of ill health.

William James has been appointed superintendent of Little Lake Cemetery, Peterboro, Canada, succeeding Frank Wise, who has resigned and will go into landscape work.

COVER ILLUSTRATION.

At this season of the year jardinières of various shapes and material filled with ornamental foliage plants are a prominent feature in the first-class flower stores of New York and other centres of first-class trade. Our cover illustration shows a very graceful arrangement which if so desired, may be brightened up by the addition of a spray or two of harmonizing cut bloom and ribbon.

BUSINESS TROUBLES.

Pepperell, Mass.—E. M. Stewart, gardener, Park St., liabilities, \$729, no assets.

Haarlem, Netherlands.—Notwithstanding the prohibition of bulb importations to the British Isles, the Association of Dutch Bulb Growers reported at their recent annual meeting that the year 1916 had been generally more favorable than either 1915 or 1914.

The total export of bulbs in the principal export months of August, September and October showed a decrease of 2,500,000 kilograms as compared with the corresponding period of the previous year, but when it is remembered that Britain took nearly 7,000,000 kilograms in 1915 it will be seen that the loss of the British market in the past year was largely compensated for by increased export to other countries. Higher prices were obtained than at any time since the war began.

Of the 19,000,000 kilograms exported in the three months named, America took 9,000,000, or nearly half, Germany 5,000,000, and the Scandinavian countries, 4,000,000 kilograms. The export to America and the Scandinavian countries underwent a very considerable increase, as was the case in the previous year, whereas the export to Germany, which closed its frontiers to all other flower garden products, remained stationary.

A HOLIDAY

Washington's Birthday,
February 22, coming on
HORTICULTURE'S regular
publication day this year
we shall go to press one
day earlier (Wednesday).
Correspondents please take
notice.

GARDENIAS

The Best \$25.00 per 100
Fancy \$20.00 per 100
Firsts \$15.00 per 100

At our prices every Retail Florist can handle them. If you buy 25 at one time we bill them at the 100 rate.

THE LEO NIESSEN CO.

Wholesale Florists

1201-05 Race Street,

PHILADELPHIA, PA.

DAVID WELCH

EDWARD J. WELCH

WELCH'S

Wholesale & Commission Florists

FLORISTS' SUPPLIES

280-282 Devonshire Street,

BOSTON, MASS.

Tel. Fort Hill 1964-1965

EDWARD REID WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.

CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

W. A. LEONARD J. M. DEUTSCHER
Bell, Locust 1497 Keystone, Race 1656

Philadelphia Wholesale Florist Exchange

1615 Ranstead St., PHILADELPHIA, Pa.

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$1.85. 50,000...\$8.00. Sample free.
For sale by dealers.

E. G. HILL CO.

Wholesale Florists

RICHMOND, IND.

Please mention Horticulture when writing.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

264 RANDOLPH ST., DETROIT, MICH.

The House for Quality and Service

ZECH & MANN

We are Wholesale Florists Doing
a Strictly Wholesale Business

30 East Randolph Street, CHICAGO



POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut Flower Market

Daily consignments from leading growers Full line of Florists' Supplies Write for quotations before ordering elsewhere

262B DEVONSHIRE ST., BOSTON, MASS.
Telephone, Main 6267-6268

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON Feb. 15		ST. LOUIS Feb. 5		PHILA. Feb. 5	
Roses						
Am. Beauty, Special	40.00	to 60.00	40.00	to 50.00	60.00	to 75.50
" " Fancy and Extra	15.00	to 30.00	20.00	to 30.00	30.00	to 50.00
" " No. 1 and culls	6.00	to 10.00	10.00	to 15.00	8.00	to 25.00
Russell, Euler, Mock	4.00	to 15.00	5.00	to 15.00	6.00	to 25.00
Hadley	4.00	to 30.00	5.00	to 10.00	6.00	to 20.00
Arenberg, Hoosier Beauty	4.00	to 16.00	4.00	to 10.00	6.00	to 15.00
Ward	3.00	to 12.00	5.00	to 10.00	5.00	to 10.00
Killarney, Radiance, Taft	3.00	to 16.00	2.00	to 8.00	6.00	to 15.00
Ophelia, Sunburst, Hillingdon	5.00	to 15.00	5.00	to 15.00	6.00	to 15.00
Key	6.00	to 15.00	.....	.....	6.00	to 20.00
Carnations	2.00	to 4.00	2.00	to 3.00	3.00	to 5.00
Cattleyas	35.00	to 50.00	.....	to 50.00	35.00	to 60.00
Dendrobium formosum	.....	to 50.00	.....	.....	35.00	to 50.00
Lilies, Longiflorum	8.00	to 12.00	.....	to 12.50	10.00	to 12.50
Lilies, Speciosum	8.00	to 10.00	.....	.....	.....	.....
Callas	12.00	to 18.00	10.00	to 12.50	12.00	to 15.00
Lily of the Valley	4.00	to 6.00	5.00	to 6.00	3.00	to 5.00
Snopdragon	2.00	to 8.00	.....	.....	4.00	to 16.00
Daffodils	2.00	to 3.00	3.00	to 4.00	3.00	to 4.00
Narcissi, Paper White	2.00	to 3.00	2.00	to 3.00	2.00	to 3.00
Roman Hyacinths	3.00	to 4.00	.....	to 2.00	2.00	to 3.00
Freesia	3.00	to 4.00	2.00	to 4.00	2.00	to 6.00
Tulips	4.00	to 5.00	2.00	to 3.00	2.00	to 4.00
Calendulas	2.00	to 4.00	5.00	to 6.00	3.00	to 4.00
Sweet Peas	1.00	to 2.00	.50	to 1.50	.50	to 2.00
Violets	.60	to 1.00	.25	to .40	.25	to .75
Marguerites	1.00	to 3.00	.....	.....	.50	to 2.00
Gardenias	20.00	to 30.00	.....	.....	5.00	to 25.00
Adiantum	.....	to 1.00	.....	to 1.00	1.00	to 1.50
Smilax	12.00	to 20.00	12.50	to 15.00	15.00	to 20.00
Asparagus Plumosus, & Spreng. (100 Bchs.)	25.00	to 35.00	25.00	to 35.00	25.00	to 50.00

WILLIAM F. KASTING Co.

Wholesale Florists

568 570 WASHINGTON STREET - BUFFALO, N. Y.

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER of

CUT FLOWERS

In writing to Advertisers kindly mention Horticulture



LILAC

Wonderfully choice quality; sprays full and well matured—\$1.00 and \$1.50 per bunch. Try a sample of either grade.

PUSSY WILLOW

\$.25, \$.50 and \$.75 per bunch

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117 W. 23th St.

PHILADELPHIA
1608-1620 Ludlow St.

BALTIMORE
Franklin & St. Paul Sts.

WASHINGTON
1216 H St., N.W.

Flower Market Reports

Valentine's Day helped BOSTON to brace up this market for a brief period and prices held good on violets and roses, particularly. The heavy influx of bulbous stock, especially narcissi of the Golden Spur type has been a depressing burden and the markets are over-weighted with the surplus. The double daffodils have now made their appearance also the Poeticus ornatus. Carnations are hard hit now and there is a sharp break in value. Sweet peas are also on the downward track. Calendulas, which are grown better in Boston than anywhere else, maintain their mid-winter prices, the demand for these from other cities preventing any accumulation in the home market. There are some beautiful anemones to be seen occasionally now, also English primroses, acacias, myosotis, and the other dainty uncommon things which are always so acceptable to the typical Boston flower purchaser.

Extreme cold weather CHICAGO has affected the Chicago market somewhat. Roses have become even more scarce and prices have advanced accordingly. Valentine's Day has increased the demand for almost all kinds of cut flowers and pot plants, roses and orchids having first place in the choice of many buyers. Carnations are not finding the favor that they did early in the season but the situation is no worse than it has been most of the winter. Sweet peas are selling well, the first bringing two dollars and the poorer grades moving at very good prices. Lily of the valley is very scarce. Freesia has been rather in excess of demand but this week is selling better. American Beauties are still decidedly scarce as compared to demand and lilies are also far from enough to go around, while callas are almost out of the question.

St. Valentine's Day NEW YORK was rather disappointing in this market. While there was more or less desultory buying in the retail stores yet with the present well-filled whole-

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

	CINCINNATI Feb. 5	CHICAGO Feb. 13	BUFFALO Feb. 5	PITTSBURG Feb. 12
Roses				
Am. Beauty, Special.....	50.00 to 60.00	40.00 to 65.00	50.00 to 50.00	50.00 to 65.00
" " Fancy and Extra.....	30.00 to 40.00	30.00 to 40.00	20.00 to 35.00	30.00 to 40.00
" " No. 1 and culls.....	8.00 to 25.00	5.00 to 15.00	8.00 to 6.00	15.00 to 25.00
Russell, Euler, Mock.....	..... to ..	6.00 to 50.00	8.00 to 15.00	10.00 to 20.00
Hadley.....	..... to ..	..... to ..	5.00 to 15.00	..... to ..
Arenberg, Hoosier Beauty.....	6.00 to 15.00	..... to ..	6.00 to 15.00	..... to ..
Ward.....	6.00 to 10.00	6.00 to 15.00	4.00 to 6.00	8.00 to 15.00
Killarney, Radiance, Taft.....	6.00 to 12.00	4.00 to 15.00	4.00 to 15.00	6.00 to 15.00
Opheia, Sunburst, Hillingdon.....	6.00 to 18.00	4.00 to 18.00	4.00 to 12.00	10.00 to 20.00
Key.....	..... to ..	..... to ..	10.00 to 15.00	..... to ..
Carnations	3.00 to 4.00	2.00 to 4.00	3.00 to 5.00	3.00 to 5.00
Cattleyas	50.00 to 60.00	40.00 to 50.00	40.00 to 50.00	40.00 to 60.00
Dendrobium formosum.....	..... to ..	..... to ..	..... to ..	30.00 to 40.00
Lilies, Longiflorum	12.50 to 15.00	10.00 to 20.00	10.00 to 12.00	..... to 15.00
Lilies, Speciosum	6.00 to 10.00	..... to ..	4.00 to 6.00	..... to ..
Callas	10.00 to 12.50	8.00 to 12.00	8.00 to 12.00	..... to ..
Lily of the Valley.....	..... to 7.00	5.00 to 6.00	6.00 to 7.00	6.00 to 8.00
Snaptadragon	4.00 to 6.00	6.00 to 8.00	5.00 to 10.00	10.00 to 15.00
Daffodils	3.00 to 5.00	3.00 to 4.00	2.50 to 3.00	3.00 to 4.00
Narcissi, Paper White	3.00 to 4.00	2.00 to 3.00	2.00 to 3.00	3.00 to 4.00
Roman Hyacinths	2.00 to 3.00	3.00 to 5.00	2.00 to 3.00	3.00 to 4.00
Freesia	2.00 to 4.00	3.00 to 4.00	3.00 to 5.00	4.00 to 6.00
Tulips	4.00 to 5.00	3.00 to 4.00	2.50 to 4.00	3.00 to 6.00
Calendulas	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 6.00
Sweet Peas.....	.75 to 1.50	1.00 to 2.00	1.00 to 2.00	1.00 to 3.00
Violets.....	.75 to 1.00	.50 to 1.00	.40 to .75	.50 to .75
Marguerites.....	.75 to 1.00	..... to 1.00	1.00 to 2.00	2.00 to 3.00
Gardenias.....	..... to ..	25.00 to 30.00	15.00 to 25.00	..... to ..
Adiantum.....	..... to 1.00	..... to 1.00	1.00 to 1.25	1.00 to 1.25
Smilax.....	..... to 15.00	12.50 to 20.00	15.00 to 18.00	12.00 to 15.00
Asparagus Plu. & Spren. (100 Bhs.)	25.00 to 50.00	25.00 to 50.00	25.00 to 50.00	20.00 to 50.00

sale supply the event made but little impression on the market. Violets moved pretty well, also sweet peas, and there was some activity on roses, although the prevailing prices on the latter are lower than they were a week or two ago. Bulbous stock is coming in very heavily with the results that prices have gone to smash on trumpet narcissi and some other things and the downward tendency has dragged everything else along to a greater or less degree. The newest thing this week as a commercial item is Buddleia asiatica, which by reason of its permeating fragrance has already made a place for itself. Carnations are plentiful and much lower in value.

Although a little PHILADELPHIA draggy previously, the first returns showed up well for last week, and taken altogether results were satisfactory. Roses are still scarce, especially American Beauty. These are very scarce indeed and mostly long stemmed, there being no medium grades arriving. Carnations are very

good and fairly plentiful, the leaders as to quality at present being Mrs. Ward, Benora, and Belle Washburn. Considerable improvement is noticeable in the sweet pea crop; form, stem and finish being extra fine. Daffodils and other bulbous stock are very plentiful and as a rule of good quality. They are selling well at moderate prices. Gardenias and orchids go fairly well. The cypripedium crop is over for the season. Buddleia, myosotis and forsythias are among the recent items to make their appearance.

ST. LOUIS Severe weather all the past week has caused transient trade to fall off, yet roses and carnations are holding up well in price. Some good color Beauties are seen but these are moving slowly. Bulbous flowers are increasing in supply.

WASHINGTON There has been quite a heavy call from southern points making exceptionally good the telegraph business of the local florists. Roses of all varieties continue scarce

(Continued on page 18.)

H. E. FROMENT

Wholesale Commission Florist
Choice Cut Flowers

New Address, 143 West 28th St., NEW YORK
Telephones: 2200, 2201, Madison Square.

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Wholesale Commission Florists

55 and 57 West 26th Street
Telephone No. 755
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Wholesale Florist

107 W. 28th Street, NEW YORK

Telephone 5335, Farragut.

Call and inspect the Best Establishment
in the Wholesale Flower District.

GEO. C. SIEBRECHT

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CONSIGNMENTS SOLICITED

PHONE 608 FARRAGUT NEW YORK
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JOHN YOUNG & CO.

WHOLESALE FLORISTS

53 WEST 28th STREET NEW YORK CITY

Consignments Solicited

Phone 7362 Madison Square

THE KERVAN COMPANY

Ferns, Mosses, Wild Smilax, Galax,
Leucothoe, Palmetto, Cycas, both fresh
cut and prepared.

Laurel, Hemlock, all Decorative Evergreens.
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A First Class Market for all CUT FLOWERS

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FINE ROSES, FANCY CARNATIONS

A Full Line of ALL CUT FLOWERS.
Telephone 3870 Farragut.

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WHOLESALE COMMISSION FLORIST SELLING AGENT FOR
LARGEST GROWERS

A full line of Choice Cut Flower Stock for all purposes.

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WHOLESALE ONLY

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HEADQUARTERS for the entire output of the

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WHOLESALE FLORISTS, 34 West 28th St., New York

Telephones 1864 }
9991 } Madison Square

CONSIGNMENTS SOLICITED

NEW YORK QUOTATIONS PER 100. To Dealers Only**ROSES AND CARNATIONS**

	Last Half of Week ending Feb. 19 1917		First Half of Week beginning Feb. 12 1917	
American Beauty, Special	25.00	to 60.00	25.00	to 60.00
" " Fancy and Extra	20.00	to 25.00	20.00	to 30.00
" " No. 1 and culls	6.00	to 15.00	2.00	to 10.00
Russell, Euler, Mock	6.00	to 20.00	5.00	to 25.00
Hadley	10.00	to 50.00	5.00	to 60.00
Arenberg, Hoosier Beauty	4.00	to 12.00	3.00	to 10.00
Ward	5.00	to 12.00	3.00	to 10.00
Killarney, Radiance, Taft	5.00	to 10.00	3.00	to 10.00
Ophelia, Sunburst, Hillingdon	6.00	to 12.00	4.00	to 15.00
Key	5.00	to 12.00	6.00	to 12.00
Carnations	2.00	to 5.00	1.50	to 5.00

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Wholesale Commission Dealer in

CHOICE CUT FLOWERS

133 West 28th Street, New York

Telephone—3532-3533 Madison Square

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WHOLESALE FLORIST

Methods Fair and Liberal. Relations
Satisfactory and Profitable.

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Charles Schenck

TRAENDLY & SCHENCK

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436 6th Avenue, Between 26th and 27th Sts., New York

Telephones: 797, 798, 799 Farragut

Consignments Solicited

WALTER R. SIEBRECHT CO.

Incorporated

Wholesale Commission Florists

Orchids, Gardenias and Many Unusual
Flowers of Quality

114 West 28th Street
NEW YORK

HENRY M. ROBINSON CO. OF NEW YORK

WHOLESALE FLORISTS

55-57 West 26th Street

Telephones, 13—8510 Madison Square

Consignments Solicited

MAURICE L. GLASS, Treasurer

Flower Market Reports

(Continued from page 219)

and there are not as many carnations as could be desired. Snapdragon is as fine as has ever been offered in Washington and brings \$3 and \$4 per dozen at wholesale. There is no over supply of daffodils, tulips and other spring flowers, and such of these as are now coming in meet with ready sale. Purity freesia is in over supply but meets with a fair sale. Violets are in fairly heavy supply. Sweet peas are fine and move well.

Visitors' Register

Boston—Messrs. Wadley and Smyth, of New York, with twelve assistants. Mr. and Mrs. R. M. Ward, New York.

New York—Philip Breitmeyer, Detroit, Mich.; R. Vincent, Jr., White-marsh, Md.; Geo. L. Stillman, Westerly, R. I.

St. Louis, Mo.—E. J. Fancourt, of Pennock-Meehan Co., Phila.; Paul Berkowitz, of H. Bayersdorfer & Co., Phila., Pa.

Philadelphia—Benjamin Hammond, Beacon, N. Y.; J. Horace McFarland, Harrisburg, Pa.; Robert Pyle, West Grove, Pa.; Wm. Gibson, Macon, Ga.; R. M. Holmes, Holmes Seed Co., Harrisburg, Pa.; Harry O. May, Summitt, N. J.; Louis J. Reuter, Westerly, R. I.

Cincinnati—Geo. McCallum, Pittsburg, Pa.; Geo. Hampton, Phila.; Jos. Marks, representing A. Henderson & Co., Chicago; J. T. Hudegen, Aurora, Ind.; P. Nye, Liberty, Ind.; Mr. and Mrs. G. A. Beckman, Middletown, Ohio; S. S. Skidelsky, Phila.; G. H. Winters, Charleston, W. Va.

Chicago—Miss Kate Harris, of the Flower Shop, Memphis, Tenn.; J. D. Smedley, Fargo, N. D.; A. S. Cerny, St. Louis, Mo.; W. J. Smart, New York; C. B. Knickman, repr. McHutchison & Co., N. Y.; Vincent Grolley, St. Louis, Mo.; A. J. Banscher, Freeport, Ill.; A. Kinyon, So. Bend, Ind.; Wm. E. Naumann, Cleveland, O.

Washington, D. C.—C. P. Frericks, F. R. Pierson Co., Tarrytown, N. Y.; John F. Huss, Hartford, Conn.; George E. Valke, Minot, N. D.; Julius Dilhoff, New York; Mr. and Mrs. W. H. Duckham, Madison, N. J.; J. T. Oaker, Minot, N. D.; J. N. Bockmann, rep. H. F. Michell, Phila.; Mr. and Mrs. D. T. Pierson, Madison, N. J.; Charles E. Meehan, Phila., Pa.

Reports from Florida indicate serious injury to the Asparagus plumosus plantations and the cut of this florists' green will be materially decreased for several weeks to come.

Send Flower Consignments to

L. B. NASON
Wholesale Florist
116 West 28th St., NEW YORK CITY

Shipping Orders Carefully Filled.
Correspondence solicited.
Telephone, Farragut 2245.

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American Beauties, Orchids, Valley, Carnations. All the novelties in the Cut Flower Market furnished on short notice. Prices quoted on application. No retail orders accepted. Flowers shipped out of Boston on early trains.

STORE OPEN FOR BUSINESS AT 6 A. M. TELEPHONE MAIN 2698.

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Can handle shipments of growers' product satisfactorily Would like to hear from Growers of Snapdragons and Sweet Peas, etc., for the New York trade.

106 West 28th St., NEW YORK
Tel. Farragut 3066

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Feb. 10 1917		First Half of Week beginning Feb. 12 1917	
Cattleyas	20.00	to 50.00	20.00	to 50.00
Dendrobium formosum	.....	to 50.00	.....	to 60.00
Lilies, Longiflorum	10.00	to 12.00	8.00	to 12.00
Lilies, Speciosum	4.00	to 8.00	4.00	to 8.00
Callas	12.00	to 18.00	15.00	to 20.00
Lily of the Valley	3.00	to 5.00	3.00	to 6.00
Snapdragon	3.00	to 12.00	3.00	to 15.00
Daffodils	2.00	to 3.00	2.00	to 3.00
Narcissi, Paper White	2.00	to 3.00	2.00	to 3.00
Roman Hyacinths	2.00	to 4.00	2.00	to 4.00
Freesia	2.00	to 4.00	1.50	to 3.00
Tulips	2.00	to 3.00	2.00	to 3.00
Calendulas	2.00	to 3.00	1.00	to 2.00
Sweet Peas	1.00	to 3.00	1.00	to 2.00
Violets	.40	to .50	.35	to .50
Marguerites	1.00	to 2.00	1.00	to 2.00
Gardenias	8.00	to 50.00	3.00	to 50.00
Adiantum	.75	to 1.25	1.00	to 1.25
Smilax	10.00	to 15.00	10.00	to 15.00
Asparagus Plumosus, & Spreng (100 bunches)	20.00	to 35.00	20.00	to 35.00

A GOLD MEDAL is not expected by us for doing our duty by our consignors and customers
We have 22 years' experience behind us

FANCY GRADE ORCHIDS, SEPTEMBER MORN, AMERICAN BEAUTY, PRIMA DONNA AND ALL OTHER ROSES, LILIES, CARNATIONS, VIOLETS, ASPARAGUS AND SMILAX and all other Seasonable Flowers.

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Commission Merchants in

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FRANK MILLANG

CUT FLOWERS

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NO DESIGNS MADE UP

UNITED CUT FLOWER CO., INC.

Flowers Sold on Commission

Consignments of
Good Stock Solicited

111 W. 28th St., - NEW YORK

A CLEAN RECORD

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167 & 8058 Farragut NEW YORK
Established 1888 Tel. 551 Farragut

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Wholesale Commission Florists

110 West 28th St., New York

We Solicit Consignments of New
England Grown Novelties.

Beechwood Heights Nurseries

Importers and Growers of

ORCHIDS

Cut Flowers of All the Leading Varieties
in their Season.

THOMAS YOUNG, Jr., Proprietor
BOUND BROOK, N. J.

Also 57 West 28th St., NEW YORK.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words

Display Advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. Dysart, 40 State St., Boston.
For page see List of Advertisers.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

ASPARAGUS

Asparagus Plumosus Seedlings, \$1.00 per 100, \$5.00 per 1000. Ready May 1st. COL-LINGDALE GREENHOUSES, Collingdale, Pa.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

BASKETS

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

BAY TREES

BAY TREES. Write for wholesale price list.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

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Hitchings & Co., New York City.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
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Folding cut flower boxes, the best made.
Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOX TREES

August Rolker & Sons, New York City.
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BOX TREES—Standards, Pyramids and Bush. Price list on demand.
JULIUS ROEHRS CO., Rutherford, N. J.

BULBS AND TUBERS

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Lilium Harrisii.
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Bulbs and Roots.
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C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK BRANCH, 8-10 Bridge St.

CANNAS

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CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
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CARNATION STAPLES

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 1000 for 35c.; 3000 for \$1.00 post-paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

C. C. Pollworth Co., Milwaukee, Wis.
Chrysanthemum, Mrs. C. C. Pollworth.

Charles H. Totty, Madison, N. J.
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Guttman & Raynor, Inc., New York City.
Or Frank Dinda, Farmingdale, N. Y.
Chrysanthemums—Alex Guttman, Blanche, White Anemone, Elizabeth Yellow Anemone.

DAHLIAS

Peony Dahlia Mrs. Frederick Grinnell.
Stock For Sale.
JOHN P. ROONEY, New Bedford, Mass.

ORDERS BOOKED ANY TIME
For Fall or Spring delivery. Wholesale and Retail. Send for Catalogue. NORTHBORO DAHLIA & GLADIOLUS GARDENS, J. L. Moore, Prop., Northboro, Mass.

NEW PAEONY DAHLIA

John Wanamaker, Newest, Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to
PEACOCK DAHLIA FARMS, Berlin, N. J.

DECORATIVE PLANTS

Julius Roehrs Co., Rutherford, N. J.
Choice Flowering and Foliage Plants.
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F. R. Pierson, Tarrytown, N. Y.
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Scottii Ferns, 2½ in. pots.....\$5.00 per 100
" " 3 in. pots..... 8.00 "
Boston " 2½ in. pots..... 5.00 "
ANTON SCHULTHEIS, College Point, N. Y.

FERTILIZERS

Pulverized Manure Co., Chicago, Ill.
Wizard Brand Cattle Manure.
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R. Vincent, Jr. & Sons Co.
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FOR SALE: 2000 S. A. Nutt out of 2½ in., ready for 3½ in., \$3.00 per hundred, \$25.00 per thousand. F. E. PALMER, INC., Brookline, Mass.

GLADIOLI

B. Hammond Tracy, Cedar Acres,
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Louis Cohen, New York City.
Window and Plate Glass.
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Greenhouse glass, lowest prices. JOHN-STON GLASS CO., Hartford City, Ind.

GLASS—6 x 8, 8 x 10, 10 x 12, 10 x 14, \$2.00 per box. Other sizes at factory prices. C. N. ROBINSON & BRO., Dept. 29, Baltimore, Md.

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H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
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GOLD FISH

Gold fish, aquarium plants, snails, castles, globes, aquarium, fish goods, nets, etc., wholesale. FRANKLIN BARRETT, Breeder, 4815 D St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

GREENHOUSE BUILDING MATERIAL
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Cottage Gardens Nurseries, Inc.,
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Specialists in Specimen Stock for Land-
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The Nut-Grower, Waycross, Ga.
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In writing to Advertisers kindly mention Horticulture

ORCHID PLANTS

Beechwood Heights Nurseries,
Bound Brook, N. J.
Importers and Growers of Orchids.
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Julius Roehrs Co., Rutherford, N. J.
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HASSALL & CO., Orchid Growers and
Raisers, Southgate, London, England. Im-
mense stock of Cattleyas.

Lager & Hurrell, Summit, N. J.

PANSY AND VERBENA BASKETS
G. P. Read, Inc., New York City.

PETUNIAS

R. Vincent, Jr. & Sons Co., White Marsh,
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PEONIES

Peonies. The world's greatest collection.
1200 sorts. Send for list. C. BETSCHER,
Canal Dover, O.

PECKY CYPRESS BENCHES

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McHutchison & Co., New York City.
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PRIVET

Amoor River Privet, 2 to 3 ft., \$2.00 per
100; \$15.00 per 1000. REYNOLDS NUR-
SERY COMPANY, Winston-Salem, N. C.

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Robert Scott & Sons, Sharon Hill, Pa.
Agent for Alex. Dickson & Sons.
New Red Rose, Donald MacDonald.
Guttman & Raynor, Inc., New York City.
Rose Prima Donna (Mme. Paul Euler).

ROSES, CANNAS AND SHRUBS.
THE CONARD & JONES COMPANY,
WEST GROVE, PA.

SASH

STANDARD HOTBED SASH, with cross
bar, 85c. each; lots of 25 and over, 80c.
each. Satisfaction guaranteed or money
refunded. Glass 6x8, 8x10, 10x12 or
10x14, \$2.00 per box of 50 sq. ft.
C. N. ROBINSON & BRO., Dept. 20, Balti-
more, Md.

SCALECIDE

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SEEDS

Carter's Tested Seeds.
Seeds with a Pedigree.
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Represented by
Winter, Son & Co., New York City.
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Fottler, Fisk, Rawson Co., Boston, Mass.
Seeds for the Florist.
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SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. LAGER
& HURRELL, Summit, N. J.

STRAWBERRY PLANTS

Strawberry Plants, \$2.50 per 1000. Cata-
logue free. BASIL PERRY, Georgetown,
Delaware.

SWEET PEA SEED

Ant. C. Zvolanek, Lompoc, Calif.
Gold Medal of Honor Winter Orchid Sweet
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R. Vincent, Jr. & Sons Co.
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COMET TOMATOES—Fine plants grown
from Roney's special forcing strain in
sterilized soil. Strong 2½ inch plants, \$2.50
per 100; \$22.50 per 1000. Cash please.
J. J. CLAYTON & SON, West Grove, Pa.

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**ASPARAGUS PLUMOSUS AND
SPRENGERI SEED**

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NOVELTIES**

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Winter, Son & Co., New York City.
For page see List of Advertisers.

COLD STORAGE GIGANTEUMS

Yokohama Nursery Co., New York City.
For page see List of Advertisers.

**GREENHOUSE GLASS, PAINTS AND
PUTTY**

The Dwellie Kaiser Co., Buffalo, N. Y.
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**"HAMBURG LATE WHITE" CHRYS-
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HOT BED SASH

Metropolitan Material Co., Brooklyn, N. Y.
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PREPARE FOR EASTER

A. L. Miller, Jamaica, N. Y.
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1917 SEED CATALOGUE

J. M. Thorburn & Co., New York City.
For page see List of Advertisers.

**Plant Propagation, Greenhouse
and Nursery Practice****By M. G. KAINS**

We have had many inquiries from time to time for a reliable and up-to-date book on plant propagation, but were always at a loss to find any publication that we could recommend. The subject has been dealt with in fragmentary manner only in books that have come to our notice. So it is well that this new work has been issued, especially as it is both comprehensive and practical, and it should meet with a ready sale among plantmen, nurserymen and gardeners. There are nineteen chapters covering in detail topics of germination and longevity of seeds, propagating by buds, layering, cuttings, grafting, etc., fruit tree stocks, clones, etc., and there are eight pages of condensed cultural instructions in tabulated form, covering annuals and perennials from seed, woody plants, evergreens, vines, bulbs and tubers, greenhouse and house plants, ferns, palms, water plants, orchids and cacti. The illustrations are numerous, comprising 213 figures and halftone plates. There are 322 pages well bound and on heavy paper, teeming with helpful information. It is a book which no cultivator can afford to do without. It is worth many times its price. Copies can be supplied from the office of HORTICULTURE at publisher's price, \$1.50.

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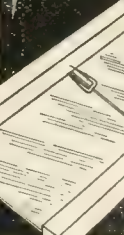
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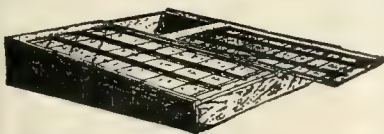
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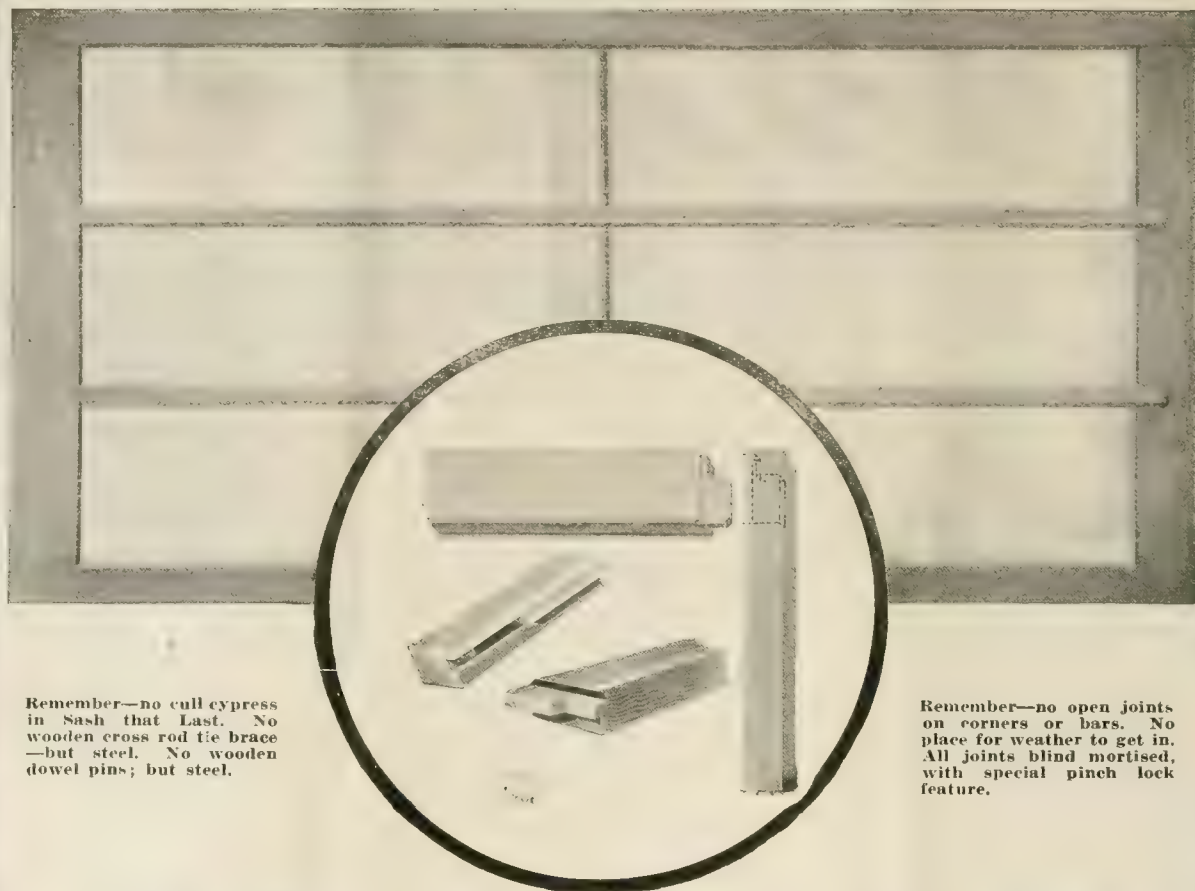
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Vol. XXV
No. 8
FEB. 24
1917

HORTICULTURE



W. J. Vesey, Jr.

President-elect, American Carnation Society

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Packed 250
in a Case**

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Evergreen Specialists. Largest Growers in America.
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FOR IMMEDIATE OR FUTURE DELIVERY

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RUTHERFORD, NEW JERSEY

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Last Call for Cuttings

Now with the first of March right here it will be necessary to go carefully over all the young stock and if there is a shortage of any variety, cuttings should be taken at once and crowded into the sand. If this work is not done at once, it may prove difficult to root the cuttings later, as the weather may get warmer, making it very hard to control the temperatures in the propagating house. It may not be difficult to keep the sand cool enough but the top temperature will surely go up, which will make the cuttings start top growth, and if they do this before the roots start it is very unlikely that they would root. If some did root the plants would never have the vitality that the cool rooted plants have, and which all plants need so much to be profitable in the greenhouse. When making the cuttings do not allow them to carry too much foliage. If three-eyed cuttings are made then two leaves with two leaflets left on each stem will be plenty. If too much foliage is left the cuttings will have quite a time to hold it, and a good many will drop their leaves and amount to a very little as a result. If the sand that this last batch is put into has already been used once, see that it is perfectly clean, free from old leaves and dead cuttings. It will also be advisable to give the sand several good waterings so that it will have a chance to get washed out. After this it can be firmed and the cuttings put in. As all other lots, these should receive a spraying of copper to eliminate the danger of spot. Care should also be taken not to spray any more than is necessary to keep them up, so that there will be little chance for the leaves to be wet all the time. This applies especially to all red roses which are more apt to get spot in the sand than other colors. All grafting that is to be done should be rushed right through, too, so that the plants will be in shape when planting time comes.

Lime

If there are some benches which are showing bad color, will not dry out readily, and the growth is weak and sickly, the plants will be greatly helped by a good application of lime. The benches should be cleaned off well before the lime is applied, and the surface rubbed over a least bit in order that the lime may not stick to the surface of the wet soil and form a water proof crust. Air-slacked lime or hydrated lime should be used—not ground up limestone, which is too slow in action for greenhouse use. After the lime is applied it will be as well not to water at once, but to rub the lime in and let it remain a day or two. This way it will cling to the crumbs of soil and form a rough surface, after which it will gradually rub off and get into the soil. This will also prevent too much of the lime getting in at once. If there are too many earth worms in the benches, water as soon as the lime is applied. This operation will kill a

good many of them. Too many worms in the benches will make the soil all slimy and sticky so that it will be almost impossible to have good drainage.

Repotting

As soon as the young stock is fairly well rooted so that the ball of the plants will hold together nicely, do not wait for the plants to get pot bound, but begin at once and shift them to larger pots. The soil can be made much richer than it was for the first potting, containing at least one-fourth of finely decayed manure. A pot-full (four-inch) of bone meal to each wheelbarrow of soil can also be added, being very careful to see that the bone is well mixed into the soil so that there will be no danger of getting too much of it in any one place. See that the three-inch pots are clean and well crocked. Finely broken old pots or fine cinders will be the cheapest crock to use, although charcoal makes the finest crocking material. If time will permit, it can be made at home, as most places have hardwood trees around with plenty of spare branches which need cutting anyway, and these can be easily burned into charcoal. See that the plants are potted deep enough. There should be at least a thin layer of soil over the old ball. Fill up with soil all around and press this. Do not press the old ball into the new soil. Such an operation would surely crush it, tearing the roots all to pieces and ruining the plants completely or else giving such a severe check that it will take weeks for them to recover. If the plants are properly potted they should take hold of the new soil at once and show an improvement in the color of the leaves about the third day. When knocking the plants out of the small pots clean them off at once. This should include taking off all the scum that may have formed on top of the soil, all yellow and diseased leaves so that the plants will be clean when they go into the new pots. See that the plants have been watered several hours before they are to be repotted. If they were potted dry, it would be impossible to get the ball wet through properly, as the water would drain right through the new soil leaving the ball dry. If the pots are very dry see that they are dipped into water before they are used. Were this not done, difficulty might be experienced in knocking the plants out of the pots later, as the soil would stick fast to the pot. Another important thing to watch for is earth worms. See that there are none in the soil of the plants and none in the new soil. If the one knocking the plants out is quick enough he can catch all the worms that may be in the ball as they are generally between the soil and the pot, and when the plant is knocked out they are left exposed, thus giving the grower a chance to catch them before they have a chance to hide back into the soil. These worms may be of benefit to plants in the benches but they are a nuisance in pots, for potted plants will seldom do anything if there are earth worms in the soil.

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A
hard blow

The news of the havoc wrought in Alabama, Florida and other sections of the south by the recent freezing weather is quite disheartening. The cause for these abnormal inroads of low temperatures is probably past finding out but the instances seem to be more frequent in recent years and the query arises as to whether the

stripping of the forest protection is not responsible in part at least. The ruin in the present case seems to have been complete and industries from the development of which much was expected have suffered a deplorable set back. To all those who have sustained so grievous a loss HORTICULTURE extends profound sympathy.

Deserves support

The action of the American Society of Landscape Architects at its meeting in Boston last week, in planning a vigorous campaign to suppress the odious "bill-board nuisance" is timely and commendable and should have all the support possible from the professional gardeners, florists, nurserymen, seedsmen and others of the craft, whom HORTICULTURE reaches. The predilection which finds expression in the planting of gardens, the erection of greenhouses, the employment of trained gardeners and the buying of flowers and plants is identical with the sentiment which would maintain the public thoroughfares and wayside attractions against the intrusion of these discordant blots upon the landscape. Without such ideals as this movement represents we should have parkless cities and flowerless homes, and development of the florists' avocation, the progress of the gardeners' art and all other horticultural industries would languish. So, wherever and in whatever way the gardener and florist and allied interests can help in this reform, which promises to be an uphill fight, it surely is their duty individually and collectively to give ungrudging support not only as a matter of principle and refinement but of good business policy.

The early closing movement

A note from Philadelphia intimates that the sentiment in favor of early closing of flower shops is rapidly gaining favor and that probably within a short time five or six o'clock P. M. will be the universal closing hour in that city, in winter as well as summer. There are indications that in other cities besides Philadelphia this subject of early closing is being seriously discussed and we are of the opinion that it only requires that a few of the leaders in the business make a bold move in order to inaugurate a good start on this very proper reform. There is no valid reason why a florist, any more than a dry goods house, a grocer, or other business place, should keep his employes hanging around the store until an unreasonable hour when all others, save the druggist, undertaker, cigar man and lunch room are permitted to go home, excepting, perhaps, on Saturday night. This ever-open custom, covering nights, Sundays and holidays, is an unfortunate legacy from the time when most of the retail flower selling was done from greenhouses, where the public expect to find always some one on duty and willing to serve them. The amount of transient business done in any store, unless exceptionally located, as in a theatre or metropolitan hotel, after six o'clock, is usually small and most of it would no doubt still be had were the rule of five o'clock closing established. The conditions of service in the florist business make a very serious handicap in securing young men of character and ability for the work. More reasonable hours will elevate and improve the service.

Marvelous Improvement in the Iris

We cannot spare our old favorites—the very early and fragrant Florentina Alba, the Am. Black Prince—earliest of the German family, the stately and fragrant Fairy, the queenly Madame Chereau, snowy white, frilled with blue, and the splendid and imposing Pallida Dalmatica.

But there are many of recent origin that must take the front ranks. There is Oriflamme, with immense petals sprinkled with silver that often sparkles in the sunlight; the grand Monsignor, the striking Loreley with its intricate and surprising veining; the alluring and dainty Catherina with its exquisite aroma; these are certainly welcomed with their smiles and cheer.

Then I believe Nature dearly loves a joke and delights to provoke a smile and so she has recently given us Parvar, a cute little pickaninny that cunningly looks at us with a roguish smile. Then comes the foliage iris. This is one of Wilson's introductions. It has a blue flower much like the Siberian. But the most striking feature is its wealth of foliage. The leaves are long, narrow and pendulous, giving a mass of the most vivid green, which retains its freshness through the heat and drought of summer down to the hard frosts of autumn. A walk bordered with such a wealth of green would be very charming. I noticed the bees were busily at work on the flowers. I saved a quantity of their pollenized seed and hope for something new and fine. The seed

pods are different from all others, being shaped like a small weavers' shuttle.

The iris is the most easily improved from seed of any flower. I have been surprised at my own efforts along this line and have originated some of superior merit. W. E. Fryer of Mantonville, Minn., has originated more, I presume, than anyone else. He had some splendid ones on exhibition at the Minnesota Horticultural summer meeting. He had 300 varieties in his collection before he commenced propagating. He takes delight in showing these to visitors and then he takes them to his own productions which are conceded to be of superior merit. Jacquesiana of the Squalens group is one of striking beauty and stands well at the front of the old varieties. But he has certainly improved on the parent in size and beauty. He finds that his new creations are seeding much more freely than the old sorts and this opens a wide door for improvement.

It seems a law of Nature that the further a plant is removed from its original parentage the more it is inclined to break out into a wild abandon of loveliness—like the dahlia with its wide divergence, so far removed from the original type that its own mother would not know it.

York, Nebr.

C. S. Harris.

THE CLASSIFICATION OF EXHIBITORS AT FLOWER SHOWS.

We present herewith Prof. Hall's proposed classification of exhibitors at flower shows. The classification was drawn up particularly for the American Dahlia Society, and was formally discussed by some members of the Executive Committee, meeting in New York on Feb. 12, but these recommendations, or definitions, Nos. 1-6, by Prof. Hall were not adopted yet by the Dahlia Society, and are now published with a view to having discussion on this subject, as it is one that concerns all over show societies, and if an agreement can be reached and widely accepted, much good will have been accomplished.

1. NOVICE AMATEURS.—This section shall include those growers who raise the flower or plant for personal pleasure or satisfaction only, who do not profit financially in any way through its cultivation, who employ no skilled labor in its growth or handling, and who have been growing the species not more than fifty years or who have grown less than 100 plants (or 40 varieties) of it during the season of the exhibit (or show) at which the display is made.

2. AMATEURS.—This section shall include growers as described in Section 1, but without limitation as to length of time or extent of cultivation of flower or plant.

3. ADVANCED GROWERS.—This section shall include those growers who raise the flowers or plants mainly for personal pleasure or satisfaction or through scientific interest in its development, who employ no skilled labor in its care or handling, who do not advertise as growers by signs, cards or announcements at the field or garden, by statements or letter-heads or by price-lists or catalogues, and whose expenditure for new varieties, for the development of seedlings, or for other testing or experimental work to promote the interests of the flower exceeds all receipts from sales of flowers, stock, or seedlings developed. Expenditures for added stock of varieties already grown are not to be considered in the preceding computation.

4. PROFESSIONAL GARDENERS AND THEIR EMPLOYERS.—This section shall include owners of estates and other growers who raise the flower or plant for personal pleasure or satisfaction only, who do not profit financially in any way through its cultivation, but who employ paid skilled assistance in the selection of varieties, in the arrangements and managements of the plants, or in the handling of the flowers. The section shall also include the professional gardeners employed by such growers when exhibiting flowers grown by their employers. Exhibits from such gardeners growing flowers for themselves shall be classed in such other sections as conditions determine.

5. SEMI-PROFESSIONAL GROWERS.—This section shall include those grow-

ers who raise the flower or plant mainly for personal pleasure or satisfaction, who may or may not employ skilled labor in connection with its culture, who do not regularly advertise as growers by any of the means indicated in Section 2, but whose returns from the sale of the flowers, stock and seedlings exceed the limit specified in Section 2.

6. PROFESSIONAL OR COMMERCIAL GROWERS.—This section shall include all growers who raise the flower or plant for the financial return from its cultivation, whether from sale of flowers, stock or seedlings, at wholesale or retail, and who advertise as growers by signs, cards or announcements at garden or field, by statements or letterheads or by price-lists or catalogues.

W. J. VESEY, Jr.

Somewhat tardy, we acknowledge, but still worthy of the place of honor we accord to it, is the portrait of the new president of the American Carnation Society. We thought it best to wait until we could have a real up-to-date portrait of Mr. Vesey and we think our carnation friends, west and east, will agree that we acted wisely. W. J. Vesey, Jr. is a young man who has made many friends in his career as a florist, as his selection for the responsible position of president by the Carnation Society attests. We anticipate a year of progress under his direction of the affairs of the organization.

CLUBS AND SOCIETIES

N. Y. FEDERATION OF HORTICULTURAL SOCIETIES AND FLORAL CLUBS.

A most enthusiastic meeting of the Federation was held at Ithaca, New York, February 15, 1917, in connection with Farmers' Week. Of the ten federated societies and clubs, nine sent delegates. Because of the scheduled meeting coming on St. Valentine's Day, it was considered better to postpone the luncheon and official meeting of the Federation from Wednesday, the 14th, until Thursday. During the morning and afternoon the delegates attended lectures and viewed the exhibit prepared by students in the Department of Floriculture of the University. At noon a luncheon was given by the Department for the various delegates in attendance; thirty were seated at the luncheon. At four o'clock the business meeting of the Federation was held. At this meeting it was voted to amend the constitution so that four meetings will be held during the coming year: the annual meeting at Syracuse in connection with the State Fair; a winter meeting at Ithaca, during Farmers' Week; a third meeting at New York City during the annual flower show, and a fourth meeting to be held with some affiliated society, upon the call of the President. An invitation was accepted from Dr. Bates of the Syracuse Rose Society to hold a meeting in Syracuse at the time of the next annual exhibition of the society.

A discussion then took place regarding the progress of a bill for the erection of a Horticultural Building on the New York State Fair Grounds. After discussion it was decided to appoint a committee, with a joint committee of the New York State Vegetable Growers' Association and with members from horticultural organizations to confer with various officials at Albany, influential in appropriations. It was voted to instruct this committee to make every effort possible to impress these officials with the need of an immediate appropriation for starting the development of the plans for a Horticultural Building. It was the feeling of the Federation that such a building was absolutely essential for the best development of the horticultural interests of the State of New York.

It was also moved that the question of the introduction of a bill to the Legislature, asking for a range of glass houses for investigational use in flower growing and vegetable culture at Cornell University be referred to the same committee, with power. It was voted that the President appoint a committee of three to work with the Commissioner of Agriculture and the Superintendent of the New York State Fair in revising the premium list.

Meetings Next Week

Monday, Feb. 26.

Florists' and Gardeners' Club of Rhode Island, Swartz Hall, Providence, R. I.
Gardeners' and Florists' Club of Baltimore, Florist Exchange Hall, Baltimore, Md.

Tuesday, Feb. 27.

Newport Horticultural Society, Newport, R. I.
Tarrytown Horticultural Society, Tarrytown, N. Y.

Wednesday, Feb. 28.

Oyster Bay Horticultural Society, Oyster Bay, N. Y.

Thursday, March 1.

Albany Florists' Club, Albany, N. Y.
Reading (Pa.) Florists' Association, Reading, Pa.
Southampton Horticultural Society, Odd Fellows Hall, Southampton, N. Y.

Friday, March 2.

North Shore Horticultural Society, Manchester, Mass.
North Shore Horticultural Society, Lake Forest, Ill.
Pasadena Horticultural Society, Pasadena, Calif.
Yonkers Horticultural Society, Yonkers, N. Y.
People's Park Cottage Gardeners' Association, Paterson, N. J.

Saturday, March 3.

Pacific Coast Horticultural Society, San Francisco, Calif.

W. F. Bultman, of Syracuse, presented an application from the Syracuse Florists' Association for membership in the Federation. This Association was voted into membership.

The report of the Treasurer showed a balance on hand of \$206.40.

The following is a list of those in attendance:

C. S. Wilson and F. A. Danker, Albany; Erl A. Bates, Werner F. Bultman, George E. Thorpe and Edmund M. Mills, Syracuse; Anton Schultheis, College Point; H. B. Stringer and A. S. A. Secker, Rochester; George Arnold, Ensenore; Bert Hill, Wilkes-Barre, Pa.; C. B. Ogston, Rochester; W. A. Adams, Henry H. Elbers, Albert Reichert, Earle Stevens, E. C. Brucker, Mark Palmer and Peter Hoffman, Buffalo; Kenneth R. Boynton, New York City; Joseph E. Tansley, Tuxedo Park; C. L. Thayer, A. C. Beal, D. Lumsden and E. A. White, Ithaca; F. R. Pierson, Tarrytown; J. H. Dunlop and Frank Dunlop, Richmond Hill, Ont.

E. A. WHITE, Secy.

ASSOCIATION OF KEW GARDENERS IN AMERICA.

The Association of Kew Gardeners in America is planning to hold its second annual banquet and reunion in New York on March 16. (Second day of the Spring Flower Show in New York). The price per plate is \$2.00. All Kew men are urged to attend and bring their wives or lady friends. For more particulars regarding place and time of meeting apply to S. R. Candler, P. O. Box 278, Southampton, N. Y.

S. R. CANDLER, Secy.

LANCASTER COUNTY FLORISTS' CLUB.

To Manheim in a driving snow storm, eleven of us all told, but a merry party and a pleasant visit. At Munroe Hostetter's we found a general assortment of stock for cutting; at Phares Hostetter's, twenty thousand callas in bloom and more than that coming on for next season, with sweet peas filling every inch of remaining space; at E. P. Hostetter's, Sprenger and Plumosos, mignonette and baby primroses by the ten thousand, all used for cutting, sweet peas by the tens of thousands; in carnations, principally Enchantress Supreme and Matchless, with a few very fine Victory. All this and more we saw at Manheim.

In the evening the attendance was not quite up to the mark and the exhibition small but excellent. Sweet peas were staged by Frank L. Kohr, Phares Hostetter, B. F. Barr and E. P. Hostetter.

Having been disappointed in getting the essayist expected, the writer read an article on "Sweet Peas under Glass" from the *Year Book* and also gave a resume of the Indianapolis carnation meeting and show.

In the question box was one on the coal situation for next season, but the minute co-operative buying as mentioned there is a sudden freeze-up over what had previously been a very cordial assembly, and it will take a harder situation even than the present one to get real intelligent co-operation started. It is to be hoped that our sons or at least our grandsons will have wiser heads on their shoulders. We are, however, getting together on a few things and invite the attention of the florists in general and the S. A. F. in particular to some things that are going to emanate from Lancaster shortly.

At the next meeting, March 15, the topic will be Easter Plants by Thomas Fries.

ALBERT M. HERR.

NASSAU COUNTY (N. Y.) HORTICULTURAL SOCIETY.

The monthly meeting of this society was held on Feb. 14th. A letter was read from the Davey Tree Expert Co., Kent, Ohio, inviting a delegate representing this society to attend their annual convention to be held on March 5-10 inclusive. Awards were made as follows: John F. Johnson for cyclamen; Harry Goodband for tomatoes; Frank Watson for roses; hon. mention to Robt. Jones for sweet peas, Rose Queen. A very instructive essay was ably read by Robt. Jones, entitled "What Science Has Done and Will Do for Floriculture," by Prof. E. A. White of Ithaca. P. W. Popp offered a special prize of \$5.00 for the most meritorious exhibit at our next meeting. Robt. Jones offered a prize of \$10.00 to be competed for at our annual tulip show to be held in May.

Exhibits for the next meeting, March 14, are 12 white, 12 pink and 12 mixed carnations.

HARRY GOODBAND, Secy.

MASSACHUSETTS HORTICULTURAL SOCIETY.

Special Prizes Offered for Flowering Bulbs at the Spring Exhibition in March, 1918.

The Massachusetts Horticultural Society announces the following special prizes for flowering bulbs at the Spring Exhibition in March, 1918.

For exhibits by foreign growers of bulbs in bloom.

It is understood that the following five classes shall be open only to growers resident abroad who will furnish the bulbs to be flowered in this country and exhibited under the name of the foreign grower of the bulbs.

Hyacinths—For the best collection of 25 varieties, single-flowered, 3 plants of each variety. Gold medal.

Narcissi—For the best collection of 100 varieties, arranged in their classes, one 6-inch pot or pan of each variety. Gold medal.

Tulips—For the best collection of 50 varieties, single early, one 6-inch pot or pan of each variety. Gold medal.

Tulips—For the best collection of 100 varieties, Darwin or other late-flowering, one 6-inch pot or pan of each variety. Gold medal.

Bulbs and Tubers—For the best collection of spring flowering bulbous, fibrous, or tuberous-rooted plants to fill 100 square feet. Hyacinths, narcissi and tulips excluded. Gold medal.

Any new varieties in the foregoing five classes or other meritorious exhibits by foreign growers will receive suitable recognition.

For exhibits of bulbs which have been produced in the United States, in bloom.

It is understood that the following four classes shall apply only to bulbs produced in the United States and exhibited under the name of the producer of the bulbs. Exhibitors will be required to furnish an affidavit that this condition has been complied with. The producer is at liberty to send his bulbs to be flowered by a grower in the vicinity of Boston, should he prefer to do so.

Hyacinths—For the best collection of 12 varieties, 3 bulbs of each. Appleton Gold Medal.

Narcissi—For the best collection of 30 varieties, one 6-inch pot or pan of each variety. Appleton Gold Medal.

Tulips—For the best collection of 12 varieties, single early, one 6-inch pot or pan of each variety. Appleton Gold Medal.

Tulips. For the best collection of 12 varieties, Darwin or other late-flowering, one 6-inch pot or pan of each variety. Appleton Gold Medal.

Preliminary Notice of Other Special Prizes.

The society offers also the following prospective prizes for gardens during the next four years. Commercial growers excluded. The medals to be awarded to the owners and the money to be given to the gardeners.

1919—For an Iris Garden, three prizes. First, Gold Medal and \$100; second, Silver Medal and \$50; third, Silver Medal and \$25.

1920—For a Rose Garden, three prizes. First, Gold Medal and \$100; second, Silver Medal and \$50; third, Silver Medal and \$25.

1921—For a collection of Lilacs in Flower, three prizes. First, Gold

Medal and \$100; second, Silver Medal and \$50; third, Silver Medal and \$25.

1922—For a Fruit Garden, three prizes. First, Gold Medal and \$100; second, Silver Medal and \$50; third, Silver Medal and \$25.

Details and further particulars of the foregoing four classes will appear in the 1918 schedule.

WILLIAM P. RICH, Secy.
Horticultural Hall, Boston.

SEWICKLEY (PA.) HORTICULTURAL SOCIETY.

At the regular meeting held on Feb. 13th the society voted to accept the invitation to send a delegate to the Annual Davey Convention to be held at Kent, Ohio, March 5-10. A committee was appointed to make preliminary arrangements for the coming September Show. M. Curran presented the financial report for the late Fall Show, and the treasurer was instructed to pay the prize money to exhibitors. Mr. Curran was accorded a rising vote of thanks for the able manner in which he had managed the show finances.

R. Taylor showed some fine Fin du Siecle celery, a carnation sport from Beacon and double cyclamen flowers. John Reig showed forced asparagus, chicory and rhubarb of fine quality, and was awarded special mention. G. R. McDonald gave an instructive lecture on poultry management.

James Stewart, who laid out the estate for Mr. Edward A. Woods and who has had charge of same for the past seven years, is leaving Sewickley to take charge of and develop the estate of Mrs. J. R. Reynolds, Winston Salem, N. C. The best wishes of the society accompany Mr. Stewart, who leaves in a few days to take up his new duties.

JOHN CARMAN, Secy.

LENOX HORTICULTURAL SOCIETY

The monthly meeting of the Lenox (Mass.) Horticultural Society was held on Wednesday evening, Feb. 14th. A. J. Loveless and Edwin Jenkins were appointed delegates to attend the Davey Convention at Kent, Ohio, March 5th to 10th. S. G. Barnes of Pittsfield gave some practical demonstrations of arranging cut flowers. He used roses, narcissi, violets, sweet peas, orchids and carnations, in vases for table and room decorations. The demonstrator used the glass blocks in the bottom of his vases, which are made for this purpose and which can be procured from any florist supply house at a very low price. This brought out a good many different opinions on the ways and means of using cut flowers to best advantage. Mr. Barnes impressed his audience with the great importance of avoiding any discord in colors, also over-crowding, which is so unnatural and fatal.

After Mr. Barnes had finished, Fred Heeremans arranged a vase of Alice carnations after his own idea of arrangement. He used quite a lot of foliage and buds, which produced a very pleasing effect.

HENRY HEEREMANS, Secy.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The February meeting held on Tuesday evening, 20th inst., was a well attended and earnest session. It was announced as Carnation night—a topic sure to stir things up at this season of the year in Boston. The display of carnations on the platform was simply grand, there being probably fifteen hundred blooms in vases of fifty and one hundred and every flower being of top exhibition quality. C. S. Strout brought vases of 100 each of the varieties which won for him big prizes at Indianapolis. David Ward from Cottage Gardens, New York, was there with some fine blooms and was good enough to say he loved Boston, which he considered the only city really interested in carnations, as the display before the Club testified.

C. S. Strout and S. J. Goddard were on the program to address the meeting, the former on his cultural methods and the latter on the novelties he had seen at Indianapolis. Mr. Goddard spoke entertainingly on the different varieties now in the lime light, but was drawn into a debate of considerable length and wide scope covering the ground from the taking of cuttings to the proper basis for awards and recognition of new varieties at flower shows, in which the stock gladiators of the club got well warmed up. Mr. Goddard said that the Dorners were now doing even better work than even their father had accomplished.

Mr. Strout explained the peculiar requirements of his business which is about three-fourths a shipping trade and in giving a list of his preferred varieties showed that the Selection was based largely on their adaptability to his special needs, the varieties being Matchless, White Winsor, Pink Delight, Nancy, Benora, Beacon, Pocahontas, Mrs. Ward and Alice. Mr. Strout stated that one fundamental basis in his culture is to maintain active growth without any check whatever, from the time the cutting is taken until the plants are thrown out of the bench. His experience was that the longer he grows the Cottage Garden varieties the better they become.

Among the other speakers were David Ward, W. E. Lenk of Halifax Gardens, J. A. Nelson, W. D. Howard.

The exhibits included the following: S. J. Goddard—Nancy, Rosalia, Laddie and Doris. C. S. Strout—Matchless, Nancy, Pink Delight, Snow White (seedling) and No. 9, maroon. Cottage Gardens—Cottage Maid and Crystal. W. E. Lenk—Alice Coombs, Mrs. C. W. Ward and Benora. John A. Nelson—seedlings. Littlefield & Wyman—Miss Theo, Eastern Beauty (salmon pink, white fringed) Benora and White Wonder. W. D. Howard—Bernice. P. S. Brigham—Benora and a cerise seedling. E. A. Richards—Greenfield, which took a prize at Indianapolis as No. 110.

Among the miscellaneous exhibits were the following: H. J. Borowski—twelve cyclamen plants of remarkable luxuriance and finish, showing exceptional cultural skill. Duncan Finlayson—Plant of Cymbidium Gottiana (eburneum Lowii x insigne) with 4 ft. spike. W. W. Edgar Co.—Tulip, Pride of Haarlem. A. K. Rogers—Freesias

The report of the dinner committee showed a balance left over, principally due to advertising in the menu, of \$235.80, which it was voted to devote to the picnic fund for next July. The secretary announced the receipt of an appreciative reply from the President to the telegram sent from the recent banquet pledging loyal support in the impending international trouble. An invitation to visit the W. W. Edgar Co.'s greenhouses on Saturday, March 24, was enthusiastically accepted. The invitation to send two delegates to the Davey Institute convention at Kent, Ohio, after considerable discussion, was accepted and W. H. Judd and John Duguid were selected, with Messrs. Donald and A. G. Sawyer as alternates.

Twenty-two new members were added to the roll. The next meeting will take place one week earlier than the regular date. Leonard Barron of Garden City, N. Y., will lecture.

CLUB AND SOCIETY NOTES.

At a meeting held Feb. 6th, the Gardeners' and Florists' Club of Washington, Pa., was organized and the following officers elected: president, J. O. Minton; vice-president, Charles McGowan. secretary and treasurer, Wm. J. Warrick, Jr.

A splendid exhibit of carnations was shown at the meeting of the Paterson (N. J.) Floricultural Society on February 6. The competition was very close, first prize being won by E. Vandercliff, gardener for Mrs. Leonard, with eighty-one points; John Garafano, gardener for S. Van Riper, was second, with seventy-nine points, while Robert Petrie, gardener for Dr. Millspaugh, was third, with

seventy-seven points. The judges were S. Hubschmidt, J. H. Bowman and Matthew Morgan.

The February meeting of the Rhode Island Horticultural Society will be held in the lecture room, Public Library, Providence, on Wednesday, February 21, 1917. Speaker, Arthur C. Miller, Inspector of Apiaries. Subject, "Bees and the Fruit Grower." Business meeting, 7.45 P. M. Lecture at 8 P. M. Opportunity will be given after the lecture for the formation of a beekeepers' association.

ERNEST K. THOMAS, Secy.
Kingston, R. I.

The American Society of Landscape Architects which met in Boston on Friday, February 16, is putting through with the assistance of the department of agriculture at Washington and various nurserymen, a standardization of the common names of plants throughout the United States. Another project is being carried on by the committee on relations with trades, seeking, as its name suggests, to bring about a better understanding between the profession and those who supply it—chiefly dealers in plant material. And still another is that of traveling exhibits by which plans, prospective sketches and photographs of work already done may be shown all over the country. The billboard nuisance, National parks, the preservation of Niagara Falls and other questions relating to public reservations, were considered. The chairman of a committee announced that data in great variety on city planning is being collected for Belgian officials who will ultimately have charge of the rebuilding of Belgian cities. After dinner Loring Underwood gave a talk on "Old New England Gardens," illustrated with lantern slides, which were photographed directly in colors.

DURING RECESS.

N. Y. and N. J. Plant Growers.

The Tenth Annual Dinner of the New York and New Jersey Association of Plant Growers was held in the Green Room at the Hotel McAlpin, New York City, on Saturday, February 17th. The attendance exceeded all expectations. The guests were seated at round tables which permitted dancing between the courses. This feature was greatly enjoyed by the majority present. After a hearty dinner, the president, J. H. Fiesser, who acted as toastmaster, called upon a number of speakers, including F. R. Pierson, Anton Schultheis, A. L. Miller, James McHutchison, George E. M. Stumpp, William H. Siebrecht, Sr. and Jr. Immediately after the speeches were over the dancing was again indulged in and continued much later than the plant growers usually dance.

Florists' Club of Washington, D. C.

The bowling team of the Florists' Club of Washington, D. C., last week defeated their opponents in the Mount Pleasant Duckpin League. The score was as follows:

FLORISTS.			
Jenkins	96	100	86
A. Shaffer	101	96	106
G. Gouldman	83	92	96
G. Shaffer	86	106	110
O. Schoeps	95	98	98
Totals	462	492	496
Decatur—Totals	475	424	471

The Gardeners' and Florists' Club of Baltimore will have a banquet and elect officers at the March meeting. Nominations are as follows: For president, F. C. Bauer, A. G. Fiedler; for vice-president, Geo. W. Stisser; for secretary, N. F. Flitton, Wm. F. Ekas; for financial secretary, Geo. Talbot; for treasurer, F. G. Burger; for librarian, C. M. Wagner.



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Favorite. There have been many yellow Cannas spotted with carmine or crimson that were good; it is, therefore, particularly interesting to find a variety that in every way eclipses its many predecessors and for which we have singled out this sort. The color is a rich, deep golden-yellow, produced on tall stems high above the foliage. The red dots, which are not too pronounced, add to the piquancy of the flower, without detracting from the golden mass effect. 5 feet. 35 cts. each; \$3.50 per doz.; \$25.00 per 100.

Orange Bedder. A particularly attractive bedding variety of a bright orange with just sufficient scarlet suffusion to intensify the dazzling mass of color when the wide branching stems are covered with flowers. \$1.25 per doz.; \$8.00 per 100; \$75.00 per 1000.

The Gem. An entirely distinct spotted variety. The immense trusses of flowers are borne on upright branching stems well above the foliage, and are of deep cream or straw-yellow, spotted with deep carmine. \$1.25 per doz.; \$8.00 per 100; \$75.00 per 1000.

One each of the above 4 varieties for 75 cts.

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Scharfenstein. Another variety that is sure to take a place among the standard sorts as quickly as it becomes known. The beautifully formed, large round florets are produced in compact but graceful trusses well above the green foliage. The color is a unique light red salmon with orange and carmine suffusions that altogether forms a most attractive addition to the range of colors found in Cannas. You will like Scharfenstein. 75 cts. each; \$7.50 per dozen.

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PLANTING THE HOME GROUNDS.

Part of a paper written for the Peninsula Horticultural Society, Dover, Del., by R. Vincent, Jr., of Whitmarsh, Md. (The portion here given was followed by comprehensive lists of planting material for various purposes and locations with practical directions for soil preparation, spacing, exposures, etc.)

This article is not intended to cover large estates where the grounds are extensive—the correct way would be then to employ a thoroughly competent landscape gardener—therefore, my article today takes in the places and situations that practically can be made good by the owner or ordinary gardener. The list of trees, shrubs, plants, etc., that are here offered are those that in my judgment are best adapted to the majority of locations.

Too many places have their beauty spoiled by too much tree planting; that is, in a great many cases too many trees are planted on a limited space. This not only occurs around the humble cottage, but many places of large dimensions are in the same condition. This sometimes is solely the owner's fault, and again it is the man supplying the trees who wants to dispose of as many as possible, and induces the party for whom he is planting that to make a display at once so many must be planted. This is all very well if they are planted so as to be removed or cut out in a few years, and they should be so placed that this may be accomplished, but often it is not and the consequences are, that after a time one tree overgrows and disfigures another. Too many mistakes are also made in not studying the size to which the tree will grow, and in planting too close to buildings, road or pathway, thus becoming a nuisance by crowding roadway or path. Then limbs have to be lopped off to make room for passage, disfiguring the trees or bushes and making a bad appearance generally.

Another point where a number of mistakes are made is in planting too many of the same variety as is frequently done on small places. The va-

rieties of trees and shrubs are innumerable and can be gotten in endless variety—and variety is what gives charm and beauty to any place whether large or small.

There are some situations where the planting of certain kinds of trees or shrubs en masse is correct and gives a goodly appearance. This is not what I have reference to, but to small places where you will see possibly four or five weeping trees, all of one variety, or the same in hardy hydrangeas or shrubbery of a like character, too much sameness to be beautiful. If those planting the home grounds would spend a little time inspecting other places that are well planted, and then consult some good gardener, the result would be more artistic even though expense was added, and they would be well paid in after years. Do not consult the man who calls himself a "landscape gardener" simply because he has a few trees and shrubs to sell, as he is more than likely to recommend what he has in stock than varieties you would have to procure elsewhere.

I have heard several lectures by parties advocating the procuring of trees, etc., from the woods or forest for their home-ground planting. This might do, and has been done in some cases, but in the majority has not been successful, as a tree or brush grown in some shade or partial shade more or less, then transplanted out into the bright sunshine is apt to harden the bark, and then it takes a long time to start growing, whereas the nursery-grown tree has been grown out in the elements, and if of any size has been transplanted several times, is better rooted and is in a condition to grow right along, and if properly planted it will soon outstrip the forest tree. I once heard a speaker, who claims to be an educated gardener, tell his audience that they should go out in the woods near by and dig up some of the large holly, cedar and pine trees and plant around some of their buildings that needed hiding. Of course, he was telling the people something he, himself, had never tried out. If he had, he would have known better than to recommend any such policy, as anyone who has tried to transplant large wild evergreens knows to his sorrow. Small ones can be and are transplant-

ed, and occasionally a large one, but a great deal of care is required.

The various garden clubs are doing a greater work than they have any idea of, not only beautifying their own grounds, but educating their neighbors along the same lines. Also, what is being done in a great many cities and suburbs, is teaching the people to improve the opportunity of having flowers either in window or porch boxes or in making the back yard a little paradise. In many instances the fences for a whole block have been removed, giving the block a park-like appearance—a thing of beauty instead of ash barrels, bottles, tin cans and rubbish of all kinds. If such a change can be made in and under these conditions in a city, how much more can be done away from the city in the suburbs under much more favorable conditions than our city cousins have.

The man or woman these days who does not wish for a garden is hard to find, and there are some that are beautiful even if very small. It may only be a porch or window box, but for all that it is a joy to the owner if well kept; and that owner is as proud of that box when the plants therein look well as the owner of a large garden or park. But a protest ought to be registered against some of the boxes and vases around public buildings, hotels, etc. They are often filled by contract early in the season, and, with the exception of water occasionally, are left to take care of themselves. Plants will die sometimes or get straggly or bare and ought to be replaced, which is not often done, consequently, instead of being beautiful, are only an eyesore. A little attention in replacing the indifferent plants would have a pleasing effect the whole season. The great city of London has thousands upon thousands of window boxes, and the house dwellers seem to vie with one another as to who can have the prettiest. The consequence is many a beauty spot for the city dweller to cast his eyes upon.

Trees, deciduous evergreens, shrubs, perennials, etc., are as much a part of the well-balanced garden as the lawn or flower beds; many of them are as highly decorative as any ornamental foliage plants, and some varieties are as useful as cut flowers, and a planting can be arranged so as to have some bloom or attraction the entire growing season, and with the evergreen trees, shrubbery, etc., a cheerful appearance will be had when the

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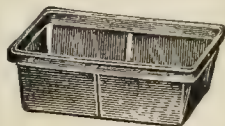
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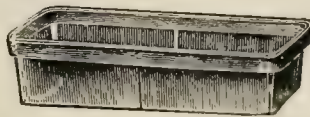
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winter's snows are falling. Shrubs have many uses, such as a dividing line between places or the vegetable garden, or between the lawn and unsightly scenes beyond. They can be planted in a mixed shrubby border, the taller growing ones back, and the short, dense growing ones front.

Thorough preparation of the soil by spading, or where possible the tree holes should be dynamited, as this does the work much more thoroughly than is possible by spading, and a properly prepared hole in which to plant a tree or bush means a great deal in the quickness and healthiness of the growth. To get this result, well rotted manure or bone meal should also be incorporated with the soil. After the trees are planted, if a good mulch of manure or litter is spread over the ground only a limited amount of cultivation will be necessary—just sufficient to keep down the weeds. When planting, care should be taken not to over-crowd, allowing ample room for future development, unless immediate effect is wanted, in which case they may be planted close and afterward every other one removed, but it is far better to plant at a regular distance, using some annuals to fill up until the regular planting covers the ground.

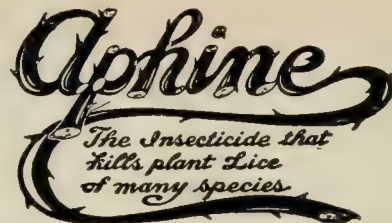
WESTCHESTER AND FAIRFIELD HORTICULTURAL SOCIETY.

At the monthly meeting on Friday evening, Feb. 9, there was an exceptionally good attendance and a very fine display of exhibits for which the judges made the following awards: Cultural certificates to Jas. Stuart for cyclamen; to Thos. Aitchison for amaryllises; to John Forbes for Hoosier Beauty roses and to Wm. Whitton for mixed antirrhinums. High commendation to Wm. Graham for mignonette, sweet peas, violets and carnations; to Robt. Grunnert for cinerarias, carnations and display of primula; to John Forbes for vase of Ophelia roses; to James Linaine for Primula malacoides; to Wm. Whitton for primulas, and to P. W. Popp for narcissi. Wm. Whitton was also awarded honorable mention for Darwin tulips. The thanks of the society was awarded to P. W. Popp for freesia hybrids and to Robt. Williamson for new rose Los Angeles. The first prize for the most meritorious exhibit was awarded to Jas. Stuart for plant of cyclamen, second went to Thos. Aitchison for display of amaryllises, and third to Wm. Whitton for vase of mixed antirrhinums.

After the business was finished a smoker and social session was held. Mr. Henry Wild was elected toastmaster and he filled that office to perfection. Songs were rendered by Messrs. Mitchell, Maynard, Collins, Forbes, Paton and Clarkson. Mr. Scott of Elmsford, Mr. Neubrand of Tarrytown and Mr. Troy of New Rochelle each said a few words. Light refreshments and cigars were passed around and it was almost midnight when the company broke up after singing "Auld Lang Syne."

The new Executive Committee are to be congratulated on getting up the entertainment, as it was certainly one of the finest times that ever was held by the society. Amongst the visitors were: W. J. Collins of Carter's, Boston, Eber Holmes, rep. W. A. Manda, So. Orange, N. J.; Mr. Hunt, rep. Boddington's, New York; Mr. Watkins of Burnett Bros., New York; also representatives from Weeber & Don, New York, Bobbink & Atkins, Rutherford, N. J., and Lord & Burnham Co., New York.

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MASSACHUSETTS AGRICULTURAL COLLEGE.

A bomb was exploded in the midst of the campus last week when Professor A. H. Nehrling suddenly passed in his resignation as Head of the Department of Floriculture. Professor Nehrling announces that he is to enter the field of business, having taken over the McDonald Floral Company at Crawfordsville, Indiana. He will carry on a retail and wholesale business, but at the same time intends to keep in touch with educational work and will devote some time to giving lectures throughout the Middle-West. In connection with his business he is to inaugurate a landscape service bureau. Professor Nehrling came to the college early in the year 1914. In the three short years that he has been at the college he has become very popular, both among faculty and students. Since he has been here he has inaugurated many new things in the department, and has improved the department many times. The department is now on a systematic business basis. From a department of four courses he has raised a department of ten courses. Under his direction a large perennial garden was started at the college. He has been especially active among the florists of the Connecticut Valley and has succeeded in bringing about a real co-operation among them. The annual flower show is another of his innovations and each year has seen a steady rise in their popularity.

It was with sincere regret that his students learned of his resignation, and the man that comes to Prof. Nehrling's position will have some big shoes to fill.

The annual Boston trip of the Floriculture classes took place February 15-18. On Thursday the Waban Rose Conservatories were visited. Here Mr. Montgomery took the students around and pointed out many interesting things pertaining to rose growing.

From Natick the classes visited J. T. Butterworth in Framingham, where a most excellent collection of orchids was seen. To the students Mr. Butterworth gave the impression of "knowing his line" completely.

At S. J. Goddard's in Framingham were viewed some of the best carnations met with on the trip. Stanley Hall, a graduate of the college, is now engaged in Goddard's.

Friday morning the wholesale flower markets were visited, where the students were very kindly shown around by Mr. Thurston. For the remainder of the morning a study of retail stores was made. Penn, Galvin and Carbone were all visited. In the afternoon, private estates in Brookline were visited. At Faulkner farms, Mr. Ness and Mr. McIntyre showed the students through the greenhouses, while Mr. Craig, superintendent, took the students on a tour of the estate. At Weld Gardens, the students went through the greenhouses and saw many plants grown to perfection.

BOLGIANO'S TOMATO SEEDS

Are grown by us as far
north as Tomatoes
will mature.

They are Free from Blight—
Most Carefully Grown—Most
Carefully Selected—Most
Carefully Saved

JUST FOR SEED

Bolgiano's Tomato Seeds are well known for their big yields of large, firm, solid, meaty uniform Tomatoes.

We grow Tomatoes—just for seed, even the pulp we destroy. Not an ounce of Canning House Tomato Seed is allowed to enter our Establishment.



"JOHN BAER" TOMATO

WHOLESALE TOMATO SEED PRICES (To the Trade Only)

	Oz.	¼ lb.	½ lb.	Lb.
"JOHN BAER" TOMATO SEED.....	\$0.75	\$2.00	\$3.75	\$7.50
"GREATER BALTIMORE" TOMATO SEED.....	.25	.75	1.25	2.50
"GREATER BALTIMORE" TOMATO (Special Stock Seed)...	.30	1.00	1.75	3.50
MY MARYLAND TOMATO SEED.....	.25	.75	1.25	2.50
MY MARYLAND TOMATO (Special Stock Seed).....	.30	1.00	1.75	3.50
THE GREAT B B BOLGIANO'S BEST.....	.20	.50	.90	1.75
RED ROCK EXTRA FINE STOCK.....	.20	.50	.90	1.75
RED ROCK (Special Stock Seed).....	.25	.75	1.25	2.50
BURPEE'S MATCHLESS TOMATO.....	.20	.50	.90	1.75
LIVINGSTON'S PERFECTION TOMATO.....	.15	.40	.75	1.50
BRINTON'S BEST TOMATO SEED.....	.15	.40	.75	1.50
WORLDS FAIR TOMATO SEED.....	.15	.40	.75	1.50
BOLGIANO'S NEW CENTURY TOMATO.....	.15	.40	.75	1.50
BOLGIANO'S NEW QUEEN TOMATO.....	.15	.40	.75	1.50
DWARF STONE TOMATO SEED.....	.15	.40	.75	1.50
I. N. L. BOLGIANO'S EXTRA EARLY.....	.25	.85	1.50	3.00
BONNY BEST (Purest Stock).....	.25	.75	1.15	2.25
LIVINGSTON'S NEW STONE (Pure).....	.20	.50	.90	1.75
LIVINGSTON'S NEW STONE (Special Stock Seed).....	.25	.75	1.25	2.50
LIVINGSTON'S PARAGON TOMATO.....	.20	.50	.90	1.75
MAULE'S SUCCESS TOMATO SEED.....	.20	.50	.90	1.75
KELLY RED OR WADE TOMATO SEED.....	.25	.75	1.15	2.25
LIVINGSTON'S FAVORITE TOMATO.....	.20	.50	.90	1.75
KING OF THE EARLIEST TOMATO.....	.25	.60	1.00	2.00
SPARK'S EARLIANA TOMATO.....	.20	.50	.90	1.75
CHALK'S JEWEL TOMATO (Pure).....	.25	.60	1.00	2.00
TEN TON TOMATO.....	.15	.40	.75	1.50
NEW JERSEY RED TOMATO.....	.15	.40	.75	1.50
TROPHY TOMATO SEED.....	.15	.40	.75	1.50

TOMATO SEED FOR YOUR 1917 CROP

You will get an enormous crop of Tomatoes from Bolgiano's Tomato Seeds this year. Our Seed was saved from one of the largest crops we have ever had, due to being favored by weather conditions. The vines were loaded with Large, Solid, Red Fruit. We know positively by planting Seed from this "Big Crop" your yield will be much larger than if you had bought seed grown where the weather conditions were not favorable.

J. BOLGIANO & SON, BALTIMORE, MD.

GROWERS OF PEDIGREE TOMATO SEEDS

THIS IS OUR 99TH YEAR

Send for our Complete Catalogue giving lowest prices to Florists and Market Gardeners.

Saturday morning Thomas Roland's houses at Revere were visited. The establishment impressed the students as very neat and systematic. At Cliftondale the famous Sim's sweet peas were inspected. Mr. Sim took the students around and pointed out his experiments with primulas and auriculas.

Thomas Roland's establishment in Nahant gave the impression of being one of the best and most business-like of its kind. Mr. Ringdahl proved very interesting and showed the visitors many interesting things.

All the students voted the trip a tremendous success, and only wish there had been time to visit more of these large establishments about Boston.

GREENHOUSES BUILDING OR CON-
TEMPLATED.

Duluth, Minn.—J. J. LeBorius, Woodland, addition.

Syracuse, N. Y.—Stern Bros., range of houses in the spring.

Great Neck, L. I., N. Y.—Golf & Country Club, one Metropolitan Material Co., house.

Beverly Farms, Mass.—A. F. Luke, Hemlock St., Hitchings houses, 27x108, 17x27, 10x17.

Lima, O.—The greenhouse range of J. H. Milnor Sons & Co. has been purchased by Rolf Zetlitz.

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Kirby B. White, Detroit, Mich.; First Vice-President, F. W. Bolgiano, Washington, D. C.; Second Vice-President, L. L. Olds, Madison, Wis.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.—Convention at Detroit, June 19, 1917.

One Week's Imports.

The value of imports at the port of New York, or horticultural material, for the week ending Feb. 9th, is given as follows:

Bulbs—France, \$776; Netherlands, \$11,567.

Plants—France, \$5,732; Netherlands, \$20,211; England, \$256; France, \$3,101.

Red clover seed—France, \$45,373.

Clover seed—France, \$2,200.

Other seeds—Denmark, \$10,779; France, \$9,676; Netherlands, \$284; England, \$1,151; British East Indies, \$1,772; Canada, \$236.

Nitrate of soda—Chile, \$218,005.

Blood—Uruguay, \$2,572.

Other fertilizers—England, \$4,592; Uruguay, \$1,889.

Where Reform is Needed.

When the Irish Department of Agriculture has to make the statement that "some seed retailers are still found selling grossly inferior and even worthless seeds," it becomes unpleasantly apparent that even now, long after the strenuous efforts that were years ago made to put an end to the one-time common practice of adulterating seed and of foisting upon the unwary old and useless stuff, there are still some who stoop to such despicable frauds. A point which has important bearing is that in Ireland, and in some parts of England, dealers who have no more right to be called seedsmen than a small shopkeeper who sells Rhubarb pills has to be called a chemist, dabble in farm and garden seeds, and probably, as much through ignorance as evil intent, handle such seeds as a legitimate seedsman would not tolerate in his warehouse.

It would be a good thing for the Trade and for the farmer—and I submit it would be but just and reasonable—if the law made it an illegal offense for any firm or person who does not employ a qualified seedsman, or is not himself a qualified man, to sell seeds to farmers or gardeners. Even if it involved the licensing of the legitimate



MICHELL'S NEW CROP

ASPARAGUS PLUMOSUS NANUS

NORTHERN GREENHOUSE GROWN SEED

1,000 Seed	\$3.50	10,000 Seed	\$30.00
5,000 Seed	15.50	25,000 Seed	72.50

Special Prices on Larger Quantities

ASPARAGUS HATCHERI SEED

100 Seed	\$.75	500 Seed	\$3.00
		1,000 Seed	\$5.00

ASPARAGUS SPRENGERI SEED

1,000 Seed	\$.75	10,000 Seed	\$5.50
5,000 Seed	3.00	25,000 Seed	12.50

ALSO ALL OTHER SEASONABLE SEEDS, BULBS AND SUPPLIES. SEND FOR WHOLESALE CATALOG.

HENRY F. MICHELL CO.

518 Market Street

PHILADELPHIA

"Seeds with a Lineage" All Varieties
Thoroughly tested at our trial grounds, Raynes
Park, London, England. Send for Catalogue

CARTERS TESTED SEEDS, Inc., 166 Chamber of
Commerce Bldg., Boston, Mass.

seedsmen, such a measure would be a boon and a safeguard so long as no incompetent dealer could obtain a license. It is a common practice in rural districts for a man to engage in a miscellaneous dealer's business, accepting orders for seeds as readily as for coal, lime, or paraffin oil, and to such a man the price of the seed is of more importance than quality, purity of stock, or even germinating power, but it is a serious matter if the misdeeds of such are to be allowed to reflect discredit upon the Seed Trade. —*Onlooker*, in *Horticultural Trade Journal* (Eng.).

New York — Nungesser - Dickinson Seed Co., under date of Feb. 17, 1917, report clover active and higher; timothy steady, alsyke higher, alfalfa, American-grown, firm. They are booking orders now for February-March shipment, but owing to heavy congestion of freight on all railroads, advise early forwarding of shipments.

CATALOGUES RECEIVED.

Frank D. Pelicano, San Francisco, Cal.—List of Dahlias.

D. Hill Nursery Co., Dundee, Ill.—Wholesale Catalogue for Spring, 1917. Illustrated.

James Vick's Sons, Rochester, N. Y.—Fruit and Ornamental Tree Book. Strong on berries.

John Connon Co., Hamilton, Ont.—Wholesale Price List Nursery Stock, Bulbs, Border Perennials, etc.

J. L. Moore, Northboro, Mass.—Catalogue and Price List of Dahlias and Gladioli for 1917. A select retail list.

Metzner Floral Company, Mountain View, Cal.—Catalogue of Gladioli and New and Select Geraniums, Pelargoniums, etc.

James Vick's Sons, Rochester, N. Y.—Vick's Garden and Floral Guide for 1917. Lavishly illustrated and covers

brightly adorned with flower and vegetable specialties in colors.

Stumpp & Walter Co., New York—General Seeds, Plant and Implement Catalogue for Spring, 1917. A 150-page catalogue, excellent in all its details, with zinnias and salpiglossis in full color as cover illustrations.

Joseph Breck & Sons, Boston—"Everything for Farm, Garden and Lawn." From 1822 to 1917 Breck's High Grade Seeds have been offered to the gardening public by means of an annual catalogue and the one now issued is fully up to the quality and attractiveness of any of its predecessors. Neatly bound in covers of cream and gold.

Our Little Back Lot.

Let them tell us, who will, of their broad, rolling farms.

And their eloquent, annual gains:
Let them dwell, if they choose, on the many rare charms

Of their far-reaching acres of grains.
But unless they have tried it they never can guess

Of the jolly good fun to be got
From the radishes, lettuce, beets, onions and cress,

Peas, beans and tomatoes, full many a mess.

Which we grow in our little back lot.

Which "we" grow,—for my wife and the children and I.

We all join, each one doing his best
In our pleasant endeavor, and eager to try
To bring forth good things for the rest.
And I'm sure we are truly as happy as kings.

Though we dwell in a plain little cot,
We're so fond of the glad vernal season that brings

All the savory, toothsome, delectable things
That grow in our little back lot.

—*Boston Traveler*.

SEEDS, BULBS, PLANTS

AND

Florists' Necessities

AMERICAN BULB CO.

172 N. Wabash Ave., Chicago, Ill.

PIN MONEY MUSHROOM SPAWN

8 lb. for \$1.00

Directions Included

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BULB STOCK

DWARF DOUBLE PEARL TUBE-ROSES. Special prices on application.

CALADIUM ESCULENTUM BULBS.

LILIUM MULTIFLORUM, 7 to 9, 9 to 10 and 10 to 11. Attractive prices on application.

LILIUM FORMOSUM, 7 to 9, 9 to 10 and 10 to 11. (Black stem.)

Please tell us how many you can use and we shall make prices accordingly.

Selected strains of Ageratum, Alysum, Aster, Begonia Erfordi, Calendula Meteor, Prince of Orange, Candytuft, Celosia, Centaurea, Cobaea scandens, Cosmos, Gypsophila, Lobelia, Petunia, and Verbena. Special prices on the above on application.

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SPECIALIZE IN

SEEDS

(personally selected strains)

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Write for Special Prices, Spot or Forward

Only Address, **LANGPORT, Eng**

J. BOLGIANO & SON

Careful Seed Growers For
99 Years

Send for Our 1917 Wholesale Prices
To Florists and Market Gardeners
BALTIMORE, MD.

KEYSTONE SNAPDRAGON

Best Winter flowering Pink Snapdragons on the market. Per pkt., \$1.00; 6 pkts. for \$5.00.

S. S. SKIDELSKY & CO.

PHILADELPHIA, PA.

My new Price List of
WINTER-ORCHID-FLOWERING SWEET PEA SEED

Has been mailed. If you have not received a copy, send me postal. Part of new crop will be ready early in July.

ANT. C. ZVOLANEK

Sweet Pea Ranch Lompoc, Cal.

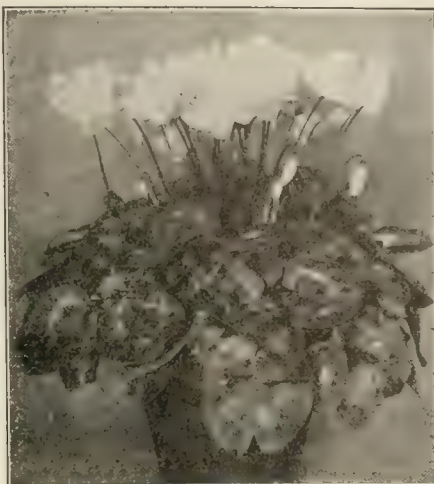
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CYCLAMEN

Awarded the Gold Medal of the Massachusetts Horticultural Society.

Strong plants in 2 1/4 inch pots, for delivery in April.

\$10.00 per 100

R. & J. FARQUHAR & CO., Boston, Mass.

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and **SEED SERVICE**

FOR SALE BY

LEONARD SEED COMPANY, Chicago, Ill.

LILIUM GIGANTEUM

NEW CROP NOW READY.

	Per	Per
	100	1000
7 to 9 in. (300 bulbs to case)...	\$5.50	\$50.00
8 to 9 in. (250 bulbs to case)...	7.00	65.00
8 to 10 in. (225 bulbs to case)...	9.00	80.00
9 to 10 in. (200 bulbs to case)...	10.00	95.00

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BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
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WHOLESALE AND RETAIL.

Reselected Strains in Seeds.
Improved styles in Implements.
Catalogue upon application.

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BURNETT BROTHERS

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98 Chambers Street, New York

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108 West 28th St., NEW YORK

SPECIAL OFFER

LILIUM FORMOSUM

8/11, 225 to a case.....	\$80.00 per 1000
9/10, 200 to a case.....	85.00 per 1000
11/13, 100 to a case.....	15.00 per case
LILIUM FORMOSUM—Black Stem	
8/10, 200 to a case.....	\$80.00 per 1000
9/10, 180 to a case.....	90.00 per 1000
11/13, 100 to a case.....	16.00 per case

Write for Complete Stock Circular.
SATISFACTION GUARANTEED.

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Prices on Application. Write for 1916
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47-54 North Market St., Boston, Mass.

W. E. MARSHALL & CO.
SEEDS, PLANTS AND BULBS
Horticultural Sundries

166 W. 23rd St., NEW YORK

GARDEN SEED

BET, CARROT, PARSNIP, RADISH and
GARDEN PEA SEED in variety; also other
items of the short crop of this past season,
as well as a full line of Garden Seeds, will
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Must be prepaid*

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Cable Address, ALEXCONNELL.

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Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies Telegraph and Cable address. Dardsflor.

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Deliver orders from any part of the country to
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Of Interest to Retail Florists

NEW FLOWER STORES.

Monticello, Ill.—R. I. Dills.

Los Angeles, Cal.—George Eischen, Venice Plaza.

Newport, Ky.—Cable Flower Shop, 705 Monmouth St.

South Bend, Ind.—South Bend Floral Co., removing to Michigan St.

Worcester, Mass.—Harry I. Randall, removing to 22 Pearl St., April 1st.

San Francisco, Cal.—M. Tomas, Bush St., succeeding New York Floral Co.

New York, N. Y.—Frank Nielsen, 17 East 28th St., succeeding Frank Lorraine.

Rochester, N. Y.—Rosery Flower Shop, 127 South Clinton Ave., Paul Campus, proprietor.

Evanston, Ill.—North Shore Landscape Gardeners, 1305 Sherman Ave., Scharf & Doting, Props.

NEW CORPORATIONS.

Wheatridge, Col.—Wilmore Floral Co., specialists in dahlias and gladioli; capital stock, \$25,000.

New York, N. Y.—Reed & Keller, Inc., florists' supplies; capital stock, \$50,000. Incorporators: S. Keller, W. N. and A. Reed.

Briarcliff Manor, N. Y.—Briarcliff Greenhouses, greenhouse growers; capital stock, \$210,000. Incorporators: W. F. Romer, E. H. and P. M. Pierson.

Elkhart, Ind.—Elkhart Plant and Flower Association; capital stock, \$10,000. Incorporators: Henry Seeley, William R. Seeley and Louis J. Lathrop.

NEWS NOTES.

Atco, N. J.—David Herbert & Sons were unfortunate in having their hot house heating system freeze up during the cold snap during the past week.

East Weymouth, Mass.—A stubborn fire broke out on February 14 in the hothouse of Duffin & Humes on Middle street. The damage amounted to about \$600.

Northampton, Mass.—Alexander Parks, who has conducted a florist business on Main street for some years, has closed his business and left for Burlington, Vt., to take charge of the greenhouses of the University of Vermont. Mr. and Mrs. Parks have won the respect and good will of Northampton people and the best wishes of their many friends go with them to their new home.

G. E. M. STUMPP

761 Fifth Ave.

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Member Florists' Telegraph Delivery Asso.

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SONS**

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**Artistic Designs . . .
High Grade Cut Blooms**

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At your service to deliver Flowers
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Deliveries to Steamers and all Eastern Ports

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Will take good care of your orders
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F. H. KRAMER
Auto delivery of Designs and Flowers to
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Stock and Work First Class

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Complete Stock. Regular discount to Trade.
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Flowers of Every Kind in Season

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440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
Stock and prompt deliveries in BUFFALO,
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HIGH GRADE PLANTS
For Retail Stores a Specialty
ASK FOR LIST
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Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
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Albany, N. Y.—H. G. Eyres, 106 State
St.

Albany, N. Y.—The Rosery, 23 Steuben
St.

Albany, N. Y.—William C. Gloeckner, 97
State St.

Boston—Thos. F. Galvin, 1 Park St.

Boston—Penn the Florist, 124 Tremont
St.

Buffalo, N. Y.—S. A. Anderson, 440 Main
St.

Buffalo, N. Y.—Palmer's, 304 Main St.

Chicago—William J. Smyth, Michigan
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Cleveland, O.—J. M. Gasser Co., Euclid
Ave.

Cleveland, O.—Adam Graham & Sons,
5523 Euclid Ave.

Cleveland, O.—Knoble Bros., 1836 W. 25th
St.

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735 Euclid Ave.

Denver, Col.—Park Floral Co., 1643
Broadway.

Detroit, Mich.—J. Breitmeyer's Sons,
corner Broadway and Gratiot Ave.

Houston, Tex.—Kerr, The Florist.

Kansas City, Mo.—Samuel Murray, 1017
Grand Ave.

Los Angeles, Calif.—Howard & Smith,
853 So. Olive St.

New London, Conn.—Reuter's.

New York—J. H. Small & Sons, 505 Mad-
ison Ave., at 52d St.

New York—David Clarke's Sons, 2139-
2141 Broadway.

New York—Alex. McConnell, 611 5th Ave.

New York—Young & Nugent, 42 W. 28th.

New York—A. T. Bunyard, 413 Madison
Ave., at 48th St.

New York—Dards, N. E. corner 44th St.
and Madison Ave.

New York—Max Schling, 22 W. 59th St.

New York—G. E. M. Stumpp, 761 Fifth
Ave.

New York—Thos. F. Galvin, Fifth Ave.,
at 48th St.

Norwich, Conn.—Reuter's.

Omaha, Neb.—Hess & Swoboda, 1415
Farnum St.

Passaic, N. J.—Edward Sceery.

Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave., N.

St. Louis, Mo.—Fred C. Weber, 4326-28
Olive St.

St. Paul, Minn.—Holm & Olson, Inc.

Tarrytown-on-Hudson, N. Y.—F. R. Pier-
son Co.

Toronto, Can.—J. H. Dunlop, 8-10 West
Adelaide St.

Washington, D. C.—Gude Bros., 1214 F
St.

Washington, D. C.—F. H. Kramer, 915
F St., N. W.

Washington, D. C.—George H. Cooke,
Connecticut Ave. and I. St.

Westerly, R. I.—Reuter's.

Worcester, Mass.—Randall's Flower Shop,
3 Pleasant St.

Send Telegraph, Telephone or Mail orders
for florist service in this vicinity to

Howard & Smith
853 SO. OLIVE ST.
Los Angeles, Calif.

Every Order sure to receive
prompt and careful attention.

REUTER'S Members Florists'
Telegraph
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STORES IN

New London and Norwich, Conn.
and Westerly, R. I.

We cover the territory between
New Haven and Providence

ST. LOUIS, MO.

FRED C. WEBER
4326-28 Olive St.

Member Florists' Telegraph Delivery Association
NOTICE INITIALS. We have one store only

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

The Far-Famed Flowers of
TORONTO

Delivered on mail or telegram order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP
8-10 West Adelaide St. - TORONTO, ONT.

ALBANY, N. Y.

EYRES
Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

106 STATE STREET, ALBANY, N. Y.

"THE HOME OF FLOWERS"

The largest cut flower store in America.
Orders for the TWIN CITIES and for all
Northwestern points given prompt at-
tention

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

The Park Floral Co.

J. A. VALENTINE, Pres.

Members Florists' Telegraph Delivery.

DENVER, COLORADO



KERR ORDERS FOR TEXAS
HOUSTON, TEXAS
Member F.T.D. Association
The Florist

NEWS ITEMS FROM EVERYWHERE

CHICAGO.

Mrs. H. D. Schiller is recovering from an operation for appendicitis at St. Joseph's hospital.

The firm of Erne & Klingel becomes Erne & Co. through the sale of the interest of Fred. L. Klingel, who retires on account of poor health.

George Asmus is suffering from a very severe attack of rheumatism and has been confined to his home at 2309 Warren Ave. for two weeks.

A new wholesale store made its appearance this week in the heart of the wholesale district. Wiltgen & Freres are to be found at 173 N. Wabash Avenue, in the basement of the new E. C. Amling store.

Among the St. Valentine's Day novelties were the surprise boxes offered by the A. L. Randall Co. They contained a heart-shaped receptacle for holding a corsage, making a very attractive appearance whether open or closed.

Since the florists' business is no longer the dead affair in summer that it used to be it is not unusual for heads of large houses to slip away for a winter vacation. A. L. Randall and Manager F. M. Johnson made some of theirs by a trip to Cuba from which they have just returned.

Since the organization of the American Bulb Co., a few months ago, the firm has done a great deal of business, but they are always reaching out for more. Members of the firm are on the road constantly. Sam Seligman's proposed trip to Japan has been called off for the present owing to international complications.

At Wm. J. Smythe's store at Michigan Ave. and 31st St., business has been highly satisfactory all the season. The improvements made last summer have proved the advertising value of a large, well kept window. Mr. Smythe has the largest in the city. Valentine business was heavy in corsages of violets and orchids, as well as in plants.

Miss Schiller has returned from Mexico and Arizona, where she was

called on account of the critical illness of her sister's husband, Walter Hilliar. He was able to return home with them. The wedding of Reinhold Schiller, who is in charge of the downtown store, and Miss Alice White took place at the bride's home, 5310 W. Monroe St., Wednesday, Feb. 21st, and they started at once for a honeymoon in the south.

The Misses Edna Frauenfelder and Bonnié Cody gave a successful Valentine masquerade at the store at 3343 W. Madison St., last Saturday evening. The counters were pushed back and about fifty young people danced to the music of a Victrola, while overhead were decorations suitable to the memory of St. Valentine. Refreshments were served. Miss Frauenfelder is her father's right hand "man" in the store, and her exhibit at the La Salle Hotel at the recent flower show will be remembered as particularly artistic.

Mrs. J. Simpson had special window decorations for Valentine's Day at both stores, 3656 Ogden Ave. and 432 N. Parkside Ave. The chief feature was a chariot, driven by a cupid and drawn by butterflies which a current of air from an electric fan kept in constant motion. It added much to the attractiveness of the store, where Valentine trade was especially good in plants and plant baskets. In cut flowers, corsages of sweet peas and violets led. Telegraph orders for that day were much more frequent than ever before.

PITTSBURGH.

DeForrest W. Ludwig, who, with Mrs. Ludwig, is spending the winter in Los Angeles, California, is engaged in some commission work for the A. L. Randall Company of Chicago.

Edward J. Baumbach, salesman and designer for the E. C. Ludwig Company, who has been seriously ill for the past three weeks with pneumonia, is now thought to be out of danger.

Murray A. McGrew, head salesman for G. P. Weaklin & Company, has the sympathy of his friends in the dangerous illness of Mrs. McGrew, whose condition at time of writing is considered critical.

Many firms lost more or less through improperly packed shipments during the recent inclement weather. Considerable discomfort was experienced at various places owing to lack of gas for heating and many were obliged to turn to coal and wood for the time being.

Beginning about ten days before St. Valentine's Day, Randolph & McClements had a succession of window displays on alternating days, each seeming to surpass its predecessor in charm and cleverness of design. The final exhibition found the wide window ledge filled with Cupid figures and Colonial bouquets, in artistic confusion. On the floor were large handsome boxes tied with broad satin ribbons, several being open and filled with long-stemmed flowers.

WASHINGTON, D. C.

The police are looking for a man who last week passed a fraudulent check for \$5 on Fred H. Kramer. The man gave a \$2.50 order and received the balance in change. Later the check came back from the bank unhonored. It bears the signature of "P. S. Rainey," and is made payable to "L. O'Dea."

NEW YORK.

In our mention of the new city headquarters of the Beechwood Heights Nurseries of Bound Brook, N. J., at 57 West 28th street, we inadvertently mentioned it as the Bound Brook Nurseries, which is another and quite different concern.

PERSONAL.

Announcement is made of the wedding to take place next April, of Louis Wesch and Miss Alice Marret, daughter of Jos. E. Marret, florist, Louisville, Ky.

Announcement has just been made of the marriage on January 11, of John R. Coombs, of Coombs Brothers, West Hartford, Conn., to Miss Isabelle Checkers.

Charles Rodgers, formerly with the King Construction Company, is now with the Metropolitan Material Company as foreman of greenhouse construction.

William F. McGranahan, who has been caretaker and gardener of the Coles estate, in Bar Harbor, Me., for the past 19 years, has gone to Philadelphia where he has taken a position.

Mr. and Mrs. Herbert E. Hall, parents of Harold R. Hall, Main street, Taunton, Mass., observed the fiftieth anniversary of their wedding day at their home in Fairhaven, on Monday, February 12.

Milford Irving is now manager of the Backer & Co. greenhouses in Billerica, Mass., having taken the place of Gustav Thommen, who resigned his position in Billerica to move to Reading, where he has purchased a farm.

Order Early!

Easter Supplies, Seeds, Bulbs,
Planting Stock of all kinds,
Glass, Heating Apparatus.
Look out for the Freight
Embargo. Order from Ad-
vertisers in HORTICULTURE.

Order Early!

Gentlemen:

The first insertion of my ad. in the Buyers' Directory in HORTICULTURE was sufficient to dispose of my entire stock of gladioli and the second would better have been omitted as I am unable to fill the many orders which have resulted. Don't insert it again. I am agreeably surprised at the results from so small an ad. Soon I shall have some other stock ready and I will sell it through HORTICULTURE.

M. P. HAENDLER.

Do Your Spring Buying Early AND DON'T FORGET

That when you stock up on Bayersdorfer & Co.'s goods you are getting
THE BEST IN THE WORLD

BASKETS For Plants BASKETS For Flowers BASKETS

In Endless Variety, Home Manufacture and
Imported. Everything in Florists' Requisites.

Stock up now and have the goods to show customers. Send for prices and
see how much you can do with a little money when you go straight to
headquarters—**THE FLORISTS' SUPPLY HOUSE OF AMERICA.**

H. BAYERSDORFER & CO.

Manufacturers and
Importers

1129 Arch Street, PHILADELPHIA, PA.

Write for
Catalogue

LUKE DOOGUE'S NEW POSITION.

City dwellers who wish to combat the high cost of living by raising garden truck in their back yards are to be tutored in the fine points of farming at a bureau established by Mayor Curley.

Although he knows a thing or two about the methods to be followed in forcing a crop of near-Aroostook potatoes from a 10 by 12 plot of city soil, the Mayor believes that the city farmers should be advised by one deeply versed in the secrets of scientific agriculture.

So he has delegated Luke Doogue, son of the late William Doogue, who for years was city forester, to give expert advice at the farming bureau that is to be opened in the park and recreation department offices, 33 Beacon St.

Mr. Doogue was for years associated with his father in agricultural work, and therefore is well equipped to tell city folks how rich harvests are to be gained.

In the opinion of the Mayor, there is no reason why industrious citizens should not grow onions, cabbage, tomatoes and other vegetables just as successfully as their brethren in the rural districts.

The course of instruction will not include tips on how to graft watermelon sprouts on squash vines. But all persons anxious to get back to nature will be told just what to do in order to raise ordinary vegetables that can be seen without the aid of a microscope.

For two hours daily Mr. Doogue will dispense information on farming. During this period, the time of which is to be announced later, he will be at the service of all citizens who visit the offices of the park and recreation department.

Mr. Doogue is now connected with the department in a clerical capacity.

"No doubt there will be many citizens anxious to make use of their plots of land as a means of holding down the cost of living," said the Mayor.

A GOLDEN WEDDING GIFT.



The little floral design shown here is an example of a very popular style of flower arrangement in New York this season. Being a golden wedding

token, the flowers used were yellow marguerites, yellow antirrhinums, marigolds and calendulas with golden ribbon. Made by Max Schling.

"The trouble is that not one in ten know how to go about it.

"They are as much in the dark as they are in regard to the principles of raising poultry. Many people blindly try their luck at chicken farming. They meet with flat failure. There is no more chance of success in agricultural work, unless they first get expert advice. That's what I intend shall be available for them."—*Boston Post.*

Provincetown, Mass.—J. and A. E. Biram have made sale of the Pilgrim Greenhouses and business to Newton The Florist, who will remove the buildings to his own land, placing them at the rear of his present greenhouse plant.

REED & KELLER

122 West 25th St., New York

Florists' Supplies

We manufacture all our
Notal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

Telephone 2850 Madison Square

WOODROW & MARKETOS

WHOLESALE

Plantmen and Florists

103 Park Ave., Room 805, NEW YORK

GARDENIAS

The Best \$25.00 per 100
Fancy \$20.00 per 100
Firsts \$15.00 per 100

At our prices every Retail Florist can handle them. If you buy 25 at one time we bill them at the 100 rate.

THE LEO NIESSEN CO.

Wholesale Florists

1201-05 Race Street,

PHILADELPHIA, PA.

EDWARD REID WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.

CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

W. A. LEONARD J. M. DEUTSCHER
Bell, Locust 1497 Keystone, Race 1856

Philadelphia Wholesale Florist Exchange

1615 Ranstead St., PHILADELPHIA, Pa.

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$1.55. 50,000...\$8.00. Sample free.
For sale by dealers.

E. G. HILL CO.

Wholesale Florists

RIICHMOND, IND.

Please mention Horticulture when writing.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

264 RANDOLPH ST., DETROIT, MICH.

The House for Quality and Service

ZECH & MANN

We are Wholesale Florists Doing
a Strictly Wholesale Business

30 East Randolph Street, CHICAGO



DAVID WELCH

EDWARD J. WELCH

WELCH'S

Wholesale & Commission Florists

FLORISTS' SUPPLIES

280-282 Devonshire Street,

BOSTON, MASS.

Tel. Fort Hill 1964-1965

POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut Flower Market

Daily consignments from leading growers Full line of Florists' Supplies Write for quotations before ordering elsewhere

262B DEVONSHIRE ST., BOSTON, MASS.
Telephone, Main 6267-6268

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON Feb. 21		ST. LOUIS Feb. 12		PHILA. Feb. 5	
Roses						
Am. Beauty, Special.....	40.00	to 60.00	40.00	to 50.00	60.00	to 75.50
" " Fancy and Extra.....	15.00	to 30.00	20.00	to 30.00	30.00	to 50.00
" " No. 1 and culls.....	6.00	to 10.00	10.00	to 15.00	8.00	to 25.00
Russell, Euler, Mock.....	4.00	to 15.00	5.00	to 15.00	6.00	to 25.00
Hadley.....	4.00	to 30.00	5.00	to 10.00	6.00	to 20.00
Arenberg, Hoosier Beauty.....	4.00	to 16.00	4.00	to 10.00	6.00	to 15.00
Ward.....	3.00	to 12.00	5.00	to 10.00	5.00	to 10.00
Killarney, Radiance, Taft.....	3.00	to 16.00	2.00	to 8.00	6.00	to 15.00
Ophelia, Sunburst, Hillingdon.....	5.00	to 15.00	5.00	to 15.00	6.00	to 15.00
Key.....	6.00	to 15.00	.....	.....	6.00	to 20.00
Carnations.....	2.00	to 4.00	2.00	to 3.00	3.00	to 5.00
Cattleyas.....	35.00	to 50.00	.....	to 50.00	35.00	to 60.00
Dendrobium formosum.....	.....	to 50.00	.....	.....	35.00	to 50.00
Lilies, Longiflorum.....	8.00	to 12.00	.....	to 12.50	10.00	to 12.50
Lilies, Speciosum.....	8.00	to 10.00	.....	.....	.....	to 10.00
Callas.....	12.00	to 18.00	10.00	to 12.50	12.00	to 15.00
Lily of the Valley.....	4.00	to 6.00	5.00	to 6.00	3.00	to 5.00
Snapdragon.....	2.00	to 8.00	.....	.....	4.00	to 16.00
Daffodils.....	2.00	to 3.00	3.00	to 4.00	3.00	to 4.00
Narcissus, Paper White.....	2.00	to 3.00	2.00	to 3.00	2.00	to 3.00
Roman Hyacinths.....	3.00	to 4.00	.....	to 2.00	2.00	to 3.00
Freesia.....	3.00	to 4.00	2.00	to 4.00	2.00	to 6.00
Tulips.....	4.00	to 5.00	2.00	to 3.00	2.00	to 4.00
Calendulas.....	2.00	to 4.00	5.00	to 6.00	3.00	to 4.00
Sweet Peas.....	1.00	to 2.00	.50	to 1.50	.50	to 2.00
Violets.....	.60	to 1.00	.25	to .40	.25	to .75
Marguerites.....	1.00	to 3.00	.....	.....	.50	to 9.00
Gardenias.....	20.00	to 30.00	.....	.....	5.00	to 25.00
Adiantum.....	.....	to 1.00	.....	to 1.00	1.00	to 1.50
Smilax.....	12.00	to 20.00	12.50	to 15.00	15.00	to 20.00
Asparagus Plumosus, & Spreng. (100 Bchs.).....	25.00	to 35.00	25.00	to 35.00	25.00	to 50.00

WILLIAM F. KASTING Co.

Wholesale Florists

568 570 WASHINGTON STREET - BUFFALO, N. Y.

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER of

CUT FLOWERS

In writing to Advertisers kindly mention Horticulture

Flower Market Reports

BOSTON A steady business at gradually diminishing prices, as crops increase in volume, is the record of the past week in this market. Carnations have been coming in with more freedom than at any time this season, but they hold their price in a very encouraging manner. Roses are not over-plentiful and they, also, hold their prices fully up to the seasonable limit. Sweet peas are more abundant and the bulb flower supply is well in excess of requirements, but with a little more salubrious weather the street merchant may be depended upon to hold down the daffodil surplus. Callas are still at the top-notch figures. Quality of all stocks is excellent.

The supply in cut stock **BUFFALO** was about equal the demand the past week. The cut of carnations is becoming heavier each day, and also tulips, daffodils, Golden Spur, freesia, hyacinths, etc. Lilies are quite scarce and have had a good demand. Roses have not been too plentiful, especially the short and medium grades. There is good select stock in Killarney, Shawyer, Ophelia, Ward, Richmond, Sunburst, etc., and prices have been holding up well. Valentine's day business was better than a year previous, though the weather from Monday till Wednesday was at zero, causing many violets and other stock to come in frozen. Trains from 4 to 7 hours late inconvenienced both the wholesaler and retailer.

St. Valentine's Day was **CHICAGO** a surprise to the trade notwithstanding the fact that much had been done to increase the sales on this increasingly popular holiday. Wholesalers were prepared for the business which began early and lasted late, but when the day's sales were footed up, they exceeded all expectations. This left the market in good shape for the rest of the week and Saturday sales cleaned up most of the stock excepting carnations and these sold with a little more vim than the week before. The sale of cattleyas has been very good all the month and these were one of the most popular flowers for valentine corsages. American Beauties are still so scarce that they are almost out of the race. All kinds of spring flowers are in great favor and they form a large part of the stock that is handled each day. Probably more violets were sold last week than in any other week this winter. Valentine trade helped out the plant trade also, the demand being the heaviest ever experienced in Chicago at this time of the year. Lincoln's birthday, which is a legal holiday in Illinois, coming on Monday preceding Valentine's day, made a heavy call for everything in blooming plants and was well cared for by heavy stock of bulbs in pans, azaleas, etc., and Washington's birthday will continue the demand.

The supply of stock **CINCINNATI** is still somewhat limited and all that comes in cleans up very readily. Some



PUSSY WILLOWS

IN THREE LENGTHS

The Long, 75c per bunch
Medium, 50c per bunch
Short, 25c per bunch

Splendid Quality they are, well furnished

VALLEY

(The Famous P/M Brand)

Special, \$6.00 per 100
Extra, 5.00 per 100

S. S. PENNOCK-MEEHAN CO.

THE Wholesale Florists of PHILADELPHIA

NEW YORK PHILADELPHIA
117 W. 28th St. 1608-1620 Ludlow St.
BALTIMORE WASHINGTON
Franklin & St. Paul Sts. 1216 H St., N. W.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI Feb. 19	CHICAGO Feb. 19	BUFFALO Feb. 19	PITTSBURG Feb. 12
Roses				
Am. Beauty, Special.....	50.00 to 60.00	40.00 to 65.00	50.00 to 50.00	50.00 to 65.00
" " Fancy and Extra.....	30.00 to 40.00	30.00 to 40.00	20.00 to 35.00	30.00 to 40.00
" " No. 1 and culls.....	8.00 to 25.00	8.00 to 20.00	8.00 to 6.00	15.00 to 25.00
Russell, Euler, Mock.....	..... to	10.00 to 25.00	8.00 to 15.00	10.00 to 20.00
Hadley.....	..... to .....	..... to	5.00 to 15.00	..... to
Arenberg, Hoosier Beauty.....	6.00 to 15.00	..... to	6.00 to 15.00	..... to
Ward.....	6.00 to 10.00	4.00 to 10.00	4.00 to 6.00	8.00 to 15.00
Killarney, Radiance, Taft.....	6.00 to 12.00	4.00 to 15.00	4.00 to 15.00	6.00 to 15.00
Ophelia, Sunburst, Hillingdon.....	6.00 to 18.00	8.00 to 15.00	4.00 to 12.00	10.00 to 20.00
Key.....	..... to .....	..... to	10.00 to 15.00	..... to
Carnations	3.00 to 4.00	1.50 to 4.00	3.00 to 4.00	3.00 to 5.00
Cattleyas.....	50.00 to 60.00	40.00 to 60.00	40.00 to 50.00	40.00 to 60.00
Dendrobium formosum.....	..... to .....	..... to .....	..... to	30.00 to 40.00
Lilies, Longiflorum.....	12.50 to 15.00	10.00 to 12.00	10.00 to 12.00	..... to 15.00
Lilies, Speciosum.....	6.00 to 10.00	..... to	4.00 to 6.00	..... to
Callas.....	10.00 to 12.50	8.00 to 12.00	8.00 to 12.00	..... to
Lily of the Valley.....	..... to 7.00	..... to 6.00	5.00 to 6.00	6.00 to 8.00
Snapdragon.....	4.00 to 6.00	6.00 to 8.00	5.00 to 10.00	10.00 to 15.00
Daffodils.....	3.00 to 5.00	3.00 to 4.00	2.50 to 3.00	3.00 to 4.00
Narcissi Paper White.....	3.00 to 4.00	..... to 3.00	2.00 to 3.00	3.00 to 4.00
Roman Hyacinths.....	3.00 to 4.00	3.00 to 4.00	2.00 to 3.00	3.00 to 4.00
Freesia.....	2.00 to 4.00	3.00 to 4.00	3.00 to 5.00	4.00 to 6.00
Tulips.....	3.00 to 5.00	3.00 to 4.00	2.50 to 4.00	3.00 to 6.00
Calendulas.....	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 6.00
Sweet Peas.....	.75 to 1.50	1.00 to 2.00	1.00 to 2.00	1.00 to 3.00
Violets.....	.75 to 1.00	.75 to 1.00	.40 to .50	.50 to .75
Marguerites.....	.75 to 1.00	.75 to 1.00	1.00 to 2.00	..... to 3.00
Gardenias.....	..... to	25.00 to 30.00	15.00 to 25.00	..... to
Adiantum.....	..... to 2.00	..... to 1.00	1.00 to 1.25	..... to 1.25
Smilax.....	..... to 15.00	12.50 to 20.00	15.00 to 18.00	15.00 to 15.00
Asparagus Plu. & Sprea. (100 Bhs.)	25.00 to 50.00	25.00 to 50.00	25.00 to 50.00	20.00 to 50.00

shipments came in frozen during the recent cold snap. The rose supply is very short. Red ones were very scarce for Valentine day. The carnation supply, too, is somewhat short. Sweet peas are fairly plentiful and find a good market. Lilies sell well. All bulbous stock has been meeting with the favor of the buyers. Violets are in a fair supply, also orchids and lily of the valley.

Not much change in **NEW YORK** conditions of demand and prices is looked for until the coming in of Lent, at least. Supplies will unquestionably increase, but the warmer weather now due will open up avenues for distribution which have been closed for an unusually long period of time. All bulbous stock is coming in very heavily. Carnations are also increas-

ing daily and there are large receipts of many other market staples. Stock in wholesale hands fluctuates with market conditions, but in general the market is "standing pat" just now and no serious or permanent break is yet in sight. Roses are making an excellent record.

Valentine week **PHILADELPHIA** proved fully up to expectations and a very good business was transacted all along the line. Prices held firm at previous high figures with the exception of bulbous stock and carnations. These were more plentiful and figures eased up a trifle. Roses are still scarce—especially American Beauty—but from now on the crop will gradually increase and they will soon be back to normal. The rose situation is nothing unusual, as it always happens

(Continued on page 253)

H. E. FROMENT
Wholesale Commission Florist
Choice Cut Flowers
New Address, 143 West 28th St., NEW YORK
Telephones: 2200, 2201, Madison Square.

HENTZ & NASH, Inc.
Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 755
Farragut New York

WM. P. FORD
Wholesale Florist
107 W. 28th Street, NEW YORK
Telephone 5335, Farragut.
Call and inspect the Best Establishment
in the Wholesale Flower District.

GEO. C. SIEBRECHT
WHOLESALE FLORIST
109 WEST 28th ST
CONSIGNMENTS SOLICITED
PHONE 608 FARRAGUT NEW YORK
609

JOHN YOUNG & CO.
WHOLESALE FLORISTS
53 WEST 28th STREET NEW YORK CITY
Consignments Solicited
Phone 7362 Madison Square

THE KERVAN COMPANY
Ferns, Mosses, Wild Smilax, Galax,
Leucothoe, Palmetto, Cycas, both fresh
cut and prepared.
Laurel, Hemlock, all Decorative Evergreens.
Tel. { 1503 } Mad St. 119 W. 28 St., New York
{ 5803 }

WILLIAM H. KUEBLER
Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
28 Willoughby St., Brooklyn, N. Y.

M. C. FORD
121 West 28th St., NEW YORK
FINE ROSES, FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS.
Telephone 3870 Farragut.

GEORGE B. HART
WHOLESALE FLORIST
24 Stone St., Rochester, N. Y.

RIEDEL & MEYER, Inc.
Wholesale Commission
READY FOR BUSINESS
49 WEST 28th ST. NEW YORK.

P. J. SMITH
WHOLESALE COMMISSION FLORIST SELLING AGENT FOR
LARGEST GROWERS
A full line of Choice Cut Flower Stock for all purposes.
TELEPHONE { 2281 } FARRAGUT 131 West 28th St., NEW YORK CITY
{ 3089 }

ALBANY CUT FLOWER EXCHANGE
THOMAS TRACEY, Mgr. 611 Broadway, ALBANY, N. Y.
WHOLESALE ONLY
SAVE TIME AND MONEY BY SENDING YOUR ORDERS TO US
Prices Right. Consignments Solicited. Telephone Connection

Centrally Located, The Hub of the Flower Market Section
CHARLES MILLANG
Wholesale Florist
55 and 57 W. 26th Street, - - NEW YORK
Telephone 2483 Farragut

ORCHIDS - - GARDENIAS
HEADQUARTERS for the entire output of the
BEECHWOOD HEIGHTS NURSERIES, of Bound Brook, N. J.
PAUL MECONI—Wholesale Florist—NEW YORK
Telephone Nos. 3864 and 8364 Madison Square 57 WEST 26th STREET

BADGLEY & BISHOP, Inc.
WHOLESALE FLORISTS, 34 West 28th St., New York
Telephones { 1664 } Madison Square
{ 9991 } CONSIGNMENTS SOLICITED

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending Feb. 17 1917		First Half of Week beginning Feb. 19 1917	
American Beauty, Special	25.00	to 60.00	25.00	to 60.00
" " Fancy and Extra	20.00	to 25.00	20.00	to 30.00
" " No. 1 and culls	2.00	to 15.00	2.00	to 10.00
Russell, Euler, Mock	6.00	to 15.00	5.00	to 15.00
Hadley	5.00	to 60.00	5.00	to 60.00
Arenberg, Hoosier Beauty	4.00	to 12.00	3.00	to 10.00
Ward	3.00	to 12.00	3.00	to 10.00
Killarney, Radiance, Taft	3.00	to 10.00	3.00	to 10.00
Ophelia, Sunburst, Hillingdon	6.00	to 12.00	4.00	to 12.00
Key	5.00	to 12.00	6.00	to 12.00
Carnations	2.00	to 3.00	1.50	to 3.00

WALTER F. SHERIDAN
Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3532-3533 Madison Square

JOSEPH S. FENRICH
WHOLESALE FLORIST
Methods Fair and Liberal. Relations
Satisfactory and Profitable.
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Frank H. Traendly Charles Schenck
TRAENDLY & SCHENCK
Wholesale Florists
436 6th Avenue, Between 26th and 27th Sts., New York
Telephones: 797, 798, 799 Farragut
Consignments Solicited

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Incorporated
Wholesale Commission Florists
Orchids, Gardenias and Many Unusual
Flowers of Quality
114 West 28th Street
NEW YORK

HENRY M. ROBINSON CO. OF NEW YORK
WHOLESALE FLORISTS
55-57 West 26th Street
Telephones, 13—8510 Madison Square Consignments Solicited
MAURICE L. GLASS, Treasurer

Flower Market Reports

(Continued from page 251)

about this time of year. Snapdragon is now one of the strong features of the market, both in quality and quantity. Sweet peas continue very fine and meet with ready sale. In cattleyas the leader now is the lovely Trianae, and this is supplemented by a limited supply of Schroederae which has just commenced to come in crop. The way the wholesalers were hustling out orders this Monday morning it looked more like a pre-Christmas than a pre-Lent date. The morning rush of late years seems to be the rule. After 3 P. M. there is not much doing. We will have 5 P. M. closing pretty soon, I think, in winter as well as summer.

Local florists are well pleased with the business done for Saint Valentine's Day which, it is reported, seems to have broken all records. The sale of sweet peas and single violets was very good but double violets seem to have hung fire. Carnations are more plentiful but still clean up at the close of each day. Roses are scarce. American Beauty brought up to \$1 each, the highest price since Christmas. Lily of the valley is more plentiful, is cheaper, and in better demand. There are plenty of spring flowers of very good quality. There is a marked scarcity of greens brought about by the recent cold wave which killed a large part of the stock south of Washington.

Visitors' Register

Philadelphia—Leonard H. Vaughan, Chicago, Ill.; A. Lincoln Brown, Cleveland, O.

Washington, D. C.—W. B. Lake, Phila., Pa.; Edward Boylan, Vaughan's Seed Store, New York; Mr. and Mrs. J. D. Eisele, Riverton, N. J.

Pittsburgh—C. Colnson, representing Bergman Brothers, Sassenheim, Holland; C. B. Knickman, or McHutchison & Co., New York.

Chicago—Mrs. W. S. Evans, La Salle, Ill.; D. F. Harrison, Kankakee, Ill.; M. Alexander, N. Y.; A. H. Barber, Cleveland, O.; Ralph M. Ward, New York City; H. Smith, Danville, Ill.; A. N. Kinsman, Austin, Minn.; A. J. Smith, of H. Frank Darrow Co., N. Y.; E. Gullett, Lincoln, Ill.

The Rochester (N. Y.) Florists' Association at a meeting on February 11 planned preliminary arrangements for a peony show, in the near future. The following committee was selected by H. B. Stringer, president of the association, to make plans and select a date for the show, and report at the next meeting: John Dunbar, assistant superintendent of parks, chairman; Charles H. Vick, C. B. Ogston, N. R. Graves, George B. Hart, E. P. Wilson.

PATRICK WELCH, WHOLESALE FLORIST

262 DEVONSHIRE STREET, BOSTON, MASS.

American Beauties, Orchids, Valley, Carnations. All the novelties in the Cut Flower Market furnished on short notice. Prices quoted on application. No retail orders accepted. Flowers shipped out of Boston on early trains.

STORE OPEN FOR BUSINESS AT 6 A. M. TELEPHONE MAIN 2698.

HERMAN WEISS WHOLESALE FLORIST

Can handle shipments of growers' product satisfactorily. Would like to hear from Growers of Snapdragons and Sweet Peas, etc., for the New York trade.

106 West 28th St., NEW YORK

Tel. Farragut 3066

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Feb. 17 1917		First Half of Week beginning Feb. 19 1917	
Cattleyas	20.00	to 50.00	20.00	to 50.00
Dendrobium formosum	.....	to 60.00	.....	to 60.00
Lilies, Longiflorum	10.00	to 12.00	8.00	to 12.00
Lilies, Speciosum	4.00	to 8.00	4.00	to 8.00
Callas	12.00	to 18.00	12.00	to 20.00
Lily of the Valley	3.00	to 5.00	3.00	to 6.00
Snapdragon	3.00	to 12.00	3.00	to 12.00
Daffodils	2.00	to 3.00	2.00	to 3.00
Narcissi, Paper White	2.00	to 3.00	2.00	to 3.00
Roman Hyacinths	2.00	to 4.00	2.00	to 4.00
Freesia	2.00	to 4.00	1.00	to 3.00
Tulips	2.00	to 3.00	2.00	to 3.00
Calendulas	2.00	to 3.00	1.00	to 4.00
Sweet Peas	1.00	to 2.00	1.00	to 2.00
Violets	.40	to .50	.35	to .50
Marguerites	1.00	to 2.00	1.00	to 2.00
Gardenias	8.00	to 50.00	3.00	to 50.00
Adiantum	.75	to 1.25	1.00	to 1.25
Smilax	10.00	to 15.00	10.00	to 15.00
Asparagus Plumosus, & Spreng (100 bunches)	20.00	to 35.00	20.00	to 35.00

A GOLD MEDAL is not expected by us for doing our duty by our consignors and customers. We have 22 years' experience behind us.

FANCY GRADE ORCHIDS, SEPTEMBER MORN, AMERICAN BEAUTY, PRIMA DONNA AND ALL OTHER ROSES, LILIES, CARNATIONS, VIOLETS, ASPARAGUS AND SMILAX and all other Seasonable Flowers.

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115 WEST 25TH STREET
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EVERYTHING IN CUT FLOWERS
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Shipping Orders Carefully Filled.

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NO DESIGNS MADE UP

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We Solicit Consignments of New
England Grown Novelties.

Beechwood Heights Nurseries

Importers and Growers of

ORCHIDS

Cut Flowers of All the Leading Varieties
in their Season.

THOMAS YOUNG, Jr., Proprietor

BOUND BROOK, N. J.

Also 57 West 28th St., NEW YORK.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display Advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. Dysart, 40 State St., Boston.
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APHINE

Aphine Mfg. Co., Madison, N. J.
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APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
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ASPARAGUS

Henry F. Michell Co., Philadelphia, Pa.
Asparagus Plumosus and Sprengeri Seed.
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Asparagus Plumosus Seedlings, \$1.00 per 100, \$5.00 per 1000. Ready May 1st. COL-LINGDALE GREENHOUSES, Collingdale, Pa.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
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August Rolker & Sons, New York City.
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BASKETS

H. Bayersdorfer & Co., Philadelphia, Pa.
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BAY TREES

BAY TREES. Write for wholesale price list.
JULIUS ROEHRS CO., Rutherford, N. J.

BEDDING PLANTS

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A. Leuthy & Co., Roslindale, Mass.
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King Construction Co., North Tonawanda, N. Y.
"King Ideal" Boiler.
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Hitchings & Co., New York City.
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Lord & Burnham Co., New York City.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
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Folding cut flower boxes, the best made. Write for list. HOLTON & HUNKEL CO., Milwaukee, Wis.

BOX TREES

August Rolker & Sons, New York City.
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BOX TREES—Continued

BOX TREES—Standards, Pyramids and Bush. Price list on demand.
JULIUS ROEHRS CO., Rutherford, N. J.

BULBS AND TUBERS

J. M. Thorburn & Co., New York City.
Lilium Harrisii.
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French and Dutch Bulbs.
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Ralph M. Ward & Co., New York City.
French, Japan, Holland and Cold Storage Bulbs.
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R. & J. Farquhar & Co., Boston, Mass.
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Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
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W. E. Marshall & Co., New York City.
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Arthur T. Boddington Co., Inc.,
New York City.
Bulbs and Roots.
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C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK BRANCH, 8-10 Bridge St.

CANNAS

Arthur T. Boddington Co., Inc., New York City.
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Henry A. Dreer, Philadelphia, Pa.
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CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
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CARNATION STAPLES

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 1000 for 35c.; 3000 for \$1.00 post-paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

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William F. Kasting Co., Buffalo, N. Y.
"Hamburg Late White" Chrysanthemum.

Guttman & Raynor, Inc., New York City.
Or Frank Dinda, Farmingdale, N. Y.
Chrysanthemums—Alex Guttman, Blanche, White Anemone, Elizabeth Yellow Anemone.

DAHLIAS

Peony Dahlia Mrs. Frederick Grinnell.
Stock For Sale.
JOHN P. ROONEY, New Bedford, Mass.

ORDERS BOOKED ANY TIME

For Fall or Spring delivery. Wholesale and Retail. Send for Catalogue. NORTHBORO DAHLIA & GLADIOLUS GARDENS, J. L. Moore, Prop., Northboro, Mass.

NEW PAEONY DAHLIA

John Wanamaker, Newest, Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to PEACOCK DAHLIA FARMS, Berlin, N. J.

DECORATIVE PLANTS

Julius Roehrs Co., Rutherford, N. J.
Choice Flowering and Foliage Plants.
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Robert Craig Co., Philadelphia, Pa.
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High Grade Plants for Retail Florists.
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A. Leuthy & Co., Roslindale, Mass.
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F. R. Pierson, Tarrytown, N. Y.
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Scottii Ferns, 2½ in. pots.....\$5.00 per 100
" " 3 in. pots..... 8.00 "
Boston " 2½ in. pots..... 5.00 "
ANTON SCHULTHEIS, College Point, N. Y.

FERTILIZERS

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GERANIUMS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
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FOR SALE: 2000 S. A. Nutt out of 2½ in., ready for 3¼ in., \$3.00 per hundred, \$25.00 per thousand. F. E. PALMER, INC., Brookline, Mass.

GLADIOLI

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The Dwelle-Kaiser Co., Buffalo, N. Y.
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Greenhouse glass, lowest prices. JOHN-STON GLASS CO., Hartford City, Ind.

GLASS—6 x 8, 8 x 10, 10 x 12, 10 x 14, \$2.00 per box. Other sizes at factory prices. C. N. ROBINSON & BRO., Dept. 29, Baltimore, Md.

GLASS CLOTH

Turner Bros., Bladen, Neb.
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GLAZING POINTS

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Lemon Oil Co., Baltimore, Md.

Lemon Oil Insecticide.

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B. G. Pratt Co., New York City.

Spraying Results Guaranteed.

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Cottage Gardens Nurseries, Inc.,
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Specialists in Specimen Stock for Land-
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NUT GROWING

The Nut-Grower, Waycross, Ga.
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ORCHID PLANTS

Beechwood Heights Nurseries,
Bound Brook, N. J.
Importers and Growers of Orchids.
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In writing to Advertisers kindly mention Horticulture

ORCHID PLANTS—Continued

Julius Roehrs Co., Rutherford, N. J.
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Lager & Hurrell, Summit, N. J.
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HASSALL & CO., Orchid Growers and Raisers, Southgate, London, England. Immense stock of Cattleyas.

PAINTS AND PUTTY

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PANSY AND VERBENA BASKETS

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PETUNIAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
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PEONIES

Peonies. The world's greatest collection. 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

Complete manuals on the Peony, Iris and Phlox. 25 cents each in stamps. C. S. HARRISON, York, Nebraska.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.

PHLOX

CLEARING OUT SALE OF HARDY PHLOX, IN VARIETIES

Including 2,000 F. G. von Larsburg, 3,000 Miss Lingard. Write for information and prices. OLD TOWN NURSERIES, South Natick, Mass.

PIPE AND FITTINGS.

Kroeschell Bros. Co., Chicago.
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H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

PLANT AND BULB IMPORTS

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McHutchison & Co., New York City.
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PRIVET

Amoor River Privet, 2 to 3 ft., \$2.00 per 100; \$15.00 per 1000. REYNOLDS NURSERY COMPANY, Winston-Salem, N. C.

RHODODENDRONS

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Robert Scott & Sons, Sharon Hill, Pa.
Agent for Alex Dickson & Sons.
New Red Rose, Donald MacDonald.

Guttman & Raynor, Inc., New York City.
Rose Prima Donna (Mme. Paul Euler).

ROSES, CANNAS AND SHRUBS.
THE CONARD & JONES COMPANY,
WEST GROVE, PA.

SASH

STANDARD HOTBED SASH, with cross bar, 85c. each; lots of 25 and over, 80c. each. Satisfaction guaranteed or money refunded. Glass 6 x 8, 8 x 10, 10 x 12 or 10 x 14, \$2.00 per box of 50 sq. ft. C. N. ROBINSON & BRO., Dept. 29, Baltimore, Md.

SCALECIDE

B. G. Pratt Co., New York City.

SEASONABLE PLANT STOCK

R. Vincent, Jr. & Sons Co., White Marsh, Md.
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SEEDS

Carter's Tested Seeds.
Seeds with a Pedigree.
Boston, Mass., and London, England.
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Sutton & Sons, Reading, England.
Represented by

Winter, Son & Co., New York City.
Sutton's Seed Catalogue.
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Joseph Breck & Sons, Boston, Mass.
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J. Bolgiano & Son, Baltimore, Md.
Tomato Seed.
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A. T. Boddington Co., Inc., New York City.
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Chas. Schwake & Co., New York City.
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Michell's Seed House, Philadelphia, Pa.
New Crop Flower Seed.
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W. Atlee Burpee & Co., Philadelphia, Pa.
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R. & J. Farquhar & Co., Boston, Mass.
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J. M. Thorburn & Co., New York City.
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Amt. C. Zvolanek, Lompoc, Cal.
Winter Flowering Sweet Pea Seed.
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S. S. Skidelsky & Co., Philadelphia, Pa.
Snapdragon.
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Kelway & Son, Langport, England.
Seeds, Selected Strains.
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W. E. Marshall & Co., New York City.
Seeds, Plants and Bulbs.
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August Rolker & Sons, New York City.
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Burnett Bros., 98 Chambers St., New York.
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Leonard Seed Co., Chicago, Ill.
Seeds and Seed Service.
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American Bulb Co., Chicago, Ill.
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Thomas J. Grey Co., Boston, Mass.
Seeds, Bulbs, Implements.
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Roman J. Irwin, New York City.
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SEEDS—Continued

S. D. Woodruff & Sons, New York City and Orange, Conn.
Garden Seeds.

For page see List of Advertisers.

Fottler, Fisk, Rawson Co., Boston, Mass.
Seeds for the Florist

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid baskets always on hand. LAGER & HURRELL, Summit, N. J.

STRAWBERRY PLANTS

Strawberry Plants, \$2.50 per 1000. Catalogue free. BASIL PERRY, Georgetown, Delaware.

SWEET PEA SEED

Ant. C. Zvolanek, Lompoc, Calif.
Gold Medal of Honor Winter Orchid Sweet Peas.
For page see List of Advertisers.

TOMATO SEED

J. Bolgiano & Son, Baltimore, Md.
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TREE SURGERY

The Davey Tree Expert Co., 1302 Elm St., Kent, Ohio.

VASES

H. Bayersdorfer & Co., Philadelphia, Pa.
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VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
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COMET TOMATOES—Fine plants grown from Roney's special forcing strain in sterilized soil. Strong 2 1/4 inch plants, \$2.50 per 100; \$22.50 per 1000. Cash please. J. J. CLAYTON & SON, West Grove, Pa.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
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The John A. Evans Co., Richmond, Ind.
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VERMICIDES

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WHEAT SHEAVES

H. Bayersdorfer & Co., Philadelphia, Pa.
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WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
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WIREWOK

Reed & Keller, New York City.
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WILLIAM E. HEILSCHER'S WIRE WORKS, 264 Randolph St., Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
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Zech & Mann, 30 East Randolph St.
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Michigan Cut Flower Exchange, 264-266 Randolph St.
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Charles Millang, 55 and 57 West 26th St.
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L. B. Nason, 116 West 28th St.
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Frank Millang, 55-57 West 26th St.
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The S. S. Pennock-Meehan Co., 1216 H St., N. W.
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New Offers In This Issue**BUSINESS OPPORTUNITY.**

Horticultural Co., Worcester, Mass.
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DRACAENA CANES

McHutchison & Co., New York City.
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GOLD MEDAL CYCLAMEN

R. & J. Farquhar & Co., Boston, Mass.
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HORSESHOE BRAND LILY BULBS.

Ralph M. Ward & Co., New York City.
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NEW BULB LIST

Rynveld Bros., Lisse, Holland,
and 44 Whitehall St., New York City.
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PUSSY WILLOWS.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
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SUTTON'S SEEDS.

Sutton & Sons, Reading, Eng.
The Sherman T. Blake Co., San Francisco, Calif.
Winter, Son & Co., New York City.
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Plant Propagation, Greenhouse and Nursery Practice

By M. G. KAINS

We have had many inquiries from time to time for a reliable and up-to-date book on plant propagation, but were always at a loss to find any publication that we could recommend. The subject has been dealt with in fragmentary manner only in books that have come to our notice. So it is well that this new work has been issued, especially as it is both comprehensive and practical, and it should meet with a ready sale among plantmen, nurserymen and gardeners. There are nineteen chapters covering in detail topics of germination and longevity of seeds, propagating by buds, layering, cuttings, grafting, etc., fruit tree stocks, clones, etc., and there are eight pages of condensed cultural instructions in tabulated form, covering annuals and perennials from seed, woody plants, evergreens, vines, bulbs and tubers, greenhouse and house plants, ferns, palms, water plants, orchids and cacti. The illustrations are numerous, comprising 213 figures and half-tone plates. There are 322 pages well bound and on heavy paper, teeming with helpful information. It is a book which no cultivator can afford to do without. It is worth many times its price. Copies can be supplied from the office of HORTICULTURE at publisher's price, \$1.50.

Horticulture Publishing Co.

147 SUMMER ST., BOSTON, MASS.

WANTS, FOR SALE, Etc.**HELP WANTED****SUPERINTENDENT WANTED**

For planting and landscape work on the land of a large water supply company. A quite good salary will be paid right at the start to the proper man. Must have had experience in carrying out forestry and landscape work; also must be industrious, energetic and of good character. Address "L. N.," care HORTICULTURE.

WANTED—Good all around men for greenhouse work and to fill orders. Must be sober and industrious. Permanent positions and good wages to the right men. State age, experience and wages expected in first letter. PETER HENDERSON & CO., 390 Arlington Ave., Jersey City, N. J.

HELP WANTED—Estimator for greenhouse building work, iron and wood material, glass, fittings, etc. Good steady opening for right man. "G. S.," care of HORTICULTURE.

SALESMEN: Attractive and profitable side line for salesmen, calling on florists, gardeners and private estates. Address "J. J.," care of HORTICULTURE.

SITUATIONS WANTED

WANTED: A position as foreman in a first class private place; middle aged, married; no children; highest references. A. B. C., HORTICULTURE.

SITUATION WANTED as Head Gardener on private estate. Life's experience in all branches under glass and outside; a successful grower of fruit under glass, stove and greenhouse plants, 'mums, carnations; well up in herbaceous and alpine. Nationality, English; married; no family. Good references. Address "F.," care of HORTICULTURE.

BUSINESS OPPORTUNITIES**Business Opportunity**

A good business opening for a bright and energetic man with a general knowledge of landscape gardening.

Address

THE HORTICULTURAL COMPANY
WORCESTER, MASS.

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The unique monthly publication which furnishes reliable and interesting up-to-date information regarding the value of pecans and other edible nuts and how to grow them for profit.

Subscription, \$1.00 per year

Sample Copy Free

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Pot Makers for a
Century and a Half**HEWS****STRONG
RED
POROUS****POTS**

Inc. 1904

World's Largest
ManufacturersStandard, Azalea, Bulb, Orchid, Fern, Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.Write for Catalogue
and Discounts**A. H. HEWS & CO., Inc., Cambridge, Mass.**Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.

If you need a boiler in a hurry telephone or telegraph at our expense

KROESCHELL BOILERS

SEND FOR CATALOG

Kroeschell Bros. Co., 466 W. Erie St., Chicago**OBITUARY.**

Cyrus R. Keene.

Cyrus R. Keene, for many years engaged in the nursery business in Cohasset, Mass., died at his home in that town on February 17, aged 88 years.

Alexander Miller.

Word has been received of the death on January 26, at Glasgow, Scotland, of Alexander Miller, father of Peter Miller of the Thos. J. Grey Company, seedsmen of Boston. Mr. Miller, whose age was seventy years, was ill but two days. He visited this country four years ago. He leaves, besides Peter, two sons, who are at the front in the war, and two daughters.

Rev. W. T. Hutchins.

All sweet pea lovers will be sorry to learn of the passing away, three weeks since, of this well known pioneer in the work of popularizing the sweet pea in America. Mr. Hutchins took up the Eckford sweet pea introductions over a quarter century ago and their advancement in this country was largely due to his enthusiasm. He was located in Indian Village, Mass., then, and was a frequent exhibitor at the shows of the Massachusetts Horticultural Society in Boston. A very genial and kindly gentleman he was and none knew him but to love him.

John Allan.

John Allan, for many years superintendent of "Oakland Farm" in Portsmouth, R. I., when it was the property of the late Cornelius Vanderbilt, died at his home on Wesley street, Newport, on February 15, after a long illness, in his eighty-fourth year. He was born April 17, 1833, in Edinburgh, Scotland, a son of William and Elizabeth (Richardson) Allan, his father being for several years gardener and steward on the estate of Sir William Johnson at Donegal, Ireland. Mr. Allan attended the public schools of Donegal and later worked with his father. In 1853 he came with his parents to the United States and was employed as a gardener in New York, Baltimore, Albany, and Highwood, N. J. In 1886 he accepted the superintendency of "Oakland Farm," and continued there for 19 years, retiring in 1905 from active work, and had since made his home in Newport. He leaves one son, John T. Allan, and several grandchildren.

PUBLICATIONS RECEIVED.

Proceedings of the Eighteenth Annual Convention of the American Association of Park Superintendents, held at New Orleans, La., October, 1916. This is a complete report, 92 pages, of a very earnest and instructive session of this progressive organization.

The twenty-ninth annual report of the Purdue University Agricultural Experiment Station, Lafayette, Ind., covers the doings for the year ending June 30, 1916, and make a pamphlet of 100 pages. We cannot refrain from noting that, as indicated by the report of the Chief of the Horticultural Department, orchard topics and truck crops are the limits of "horticultural" activity at Purdue.

AGRICULTURAL STATISTICS is a new quarterly publication, containing simplified tabulated statements, showing at a glance the farm productions of the United States, showing how much each state raises, the quantity per acre, etc., during a series of years. It also gives intelligent comparisons concerning each branch of agriculture, state by state, so that the possession of Agricultural Statistics in handy pocket form gives a valuable encyclopedia. The price per copy is 25 cents. Published by The Hale Publishing Company, 3550 Vista Ave., St. Louis, Mo.

We have just received from that untiring enthusiast, Rev. C. S. Harrison, a copy of the new edition of his interesting and instructive Peony Manual, giving complete directions for the propagation and cultivation of this grand old favorite flower. Mr. Harrison is an apostle of the gospel of floral beauty and sweetness and he is at his best when he talks of his beloved peonies and irises. The manual under review is thorough and reliable as well as inspiring and is materially enlarged and improved over the former issues. Price 25 cents a copy. The Manual on the Iris comes also in enlarged form and more beautiful dress, with twelve full page engravings and some very valuable lists of varieties. Price 25 cents. The Manual on the Phlox is the third of Mr. Harrison's useful publications. It tells the whole story of growing and raising new varieties. Price 25 cents. Any of the above may be ordered from HORTICULTURE.

**NON-KINK WOVEN HOSE**

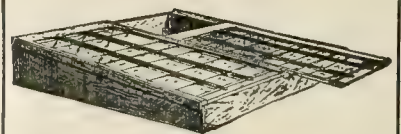
In any length (one piece) with couplings, 15c. per foot. Unequaled at the price.

**Hose Valve, 70c.**

All brass except the hand wheel. Has a removable leather disk which is easily replaced to keep water tight. Stuffing box prevents leaks at stem.

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**HOTBED SASH at 80c. each**

Made of best grade Gulf cypress.

Glazed Hotbed Sash from \$1.65 up.**Double Light Sash up to \$4.00.**

We carry a large stock of all sizes.

Write us for estimate

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Florat Specialties,
New Brand. New Style.
Hose "RIVERTON."
Furnished in lengths up to 500 ft. without seam or joint.

The HOSE for the FLORIST

3/4-inch, per ft., 15 c.

Reel of 500 ft., "14 1/2 c.

2 Reels, 1000 ft., "14 c.

3/4-inch, "13 c.

Reels, 500 ft., "13 1/2 c.

Couplings furnished

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714 Chestnut St.,

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STANDARD FLOWER**POTS**

If your greenhouses are within 500 miles of the Capitol, write us; we can save you money.

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29th & M Sts., Washington, D. C.

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On Ventilating Apparatus and Greenhouse Fittings

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ARE THE BEST FOR
Iron Frame, Pipe Frame or Wood Frame
GREENHOUSES

Estimate and Sketch Submitted Promptly

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3275 West 31st Street, - - - - - CHICAGO, ILL.

SHARP, PARTRIDGE & CO.

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OUR PRICES WILL PROVE THIS.

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The Only Perfect Liquid Putty Machine



Will last a life-time.

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Adjustable—can and frame separate—easily cleaned. Frame all one piece, of malleable iron. More practical and more easily operated than any other.

SEAL TIGHT LIQUID PUTTY
\$1.35 per Gallon in 10 Gallon lots
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A transparent waterproof fabric, guaranteed to generate about the same warmth and light as glazed sash, or money back. For all forcing purposes. Sample 3 x 6 feet. 50c. prepaid.

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Use the only shading

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Most up-to-date arm on the market. Proof that it is better than any other is that others tried to imitate it. Write for our 1916 catalog just out.

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Richmond, Ind.

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IROQUOIS WHITE (Semi-Paste).
Most Perfect White Paint Made.

Be sure to get our estimates.

The DWELLE-KAISER Co.

237-251 Elm St., BUFFALO, N. Y.

Dreer's Peerless Glazing Points For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts. The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid.
Samples free.

HENRY A. DREER,
714 Chestnut Street,
Philadelphia.

FULL
SIZE
No. 2

MASTICA



For Greenhouse
Glazing

USE IT NOW

F. O. PIERCE CO.

12W. BROADWAY
NEW YORK

Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

The Florists Hall Association rate of insurance from Nov. 1st, 1916 to Nov. 1st, 1917 will be twenty cents per hundred square feet of single thick glass and eight cents per hundred square feet of double thick glass. For particulars address **JOHN G. ESLER, Sec., Saddle River, N. J.**

THE RIGHT WAY

Gives Us The Right Of Way



Every Metropolitan greenhouse is planned with an eye to results—successful crops.

Our cares do not cease with the mere mechanical part of the work. And, while we no doubt owe a great deal of our success to the high grade character of our labors, still we base our claims for your consideration, upon our ability to erect the right kind of a greenhouse in the right manner, at the right price.

PUT YOUR GREENHOUSE PROBLEMS UP TO US

We go anywhere in the U. S.
to submit plans and prices.

METROPOLITAN MATERIAL CO.

Patented Greenhouses.

1392-1414 Metropolitan Ave., Brooklyn, N. Y.

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**GREENHOUSE MATERIAL
HOT-BED SASHES**

Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.

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and Copyrights

Difficult and rejected cases specially solicited. No misleading inducements made to secure business. Over 30 years' active practice. Experienced, personal, conscientious service. Write for terms. Address,

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PATENT LAWYERS

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Washington, D. C.



SMOKE

Let's Smoke Out The Greenhouse Cost Coon

GETTING rid of wrong ideas, is sometimes like smoking out a coon. They seem to get up inside some hollow of our brain and persist in staying there until something or somebody smokes them out.

For example; take the question of the cost of our Iron Frame house; there are still some growers, who when it comes to building, seem to figure only on how *much* ground they can cover for so much money.

How it's covered, is unimportant. They entirely lose sight of the fact, that in a few years they will have to uncover it and cover it up again by building another house.

In the meantime, they have been covering their first house with money, to cover the repairs.

Sooner or later, repair costs and re-building costs, will smoke such ideas out of their brain hollow, and you'll see them building Iron Frame houses.

But isn't it strange that they first have to learn all over for themselves, what has already been learned so conclusively by so many others!

If you happen to know of any one who has just smoked himself out; we would greatly appreciate it, if you would mention to him that we go anywhere for business. Or to talk business.

Hitchings and Company

GENERAL OFFICES AND FACTORY, ELIZABETH, N. J.

NEW YORK OFFICE:
1170 Broadway

BOSTON OFFICE:
John Hancock Bldg., 49 Federal St.

PHILADELPHIA OFFICE:
40 So. 15th St.

Vol. XXV
No. 9
MAR. 3
1917

HORTICULTURE



Photo. by Richard Roth

Chrysanthemum maximum King Edward VII

Published Every Saturday at 147 Summer Street, Boston, Mass.
Subscription \$1.00

Burpee's Seeds Grow

New Aster

American Beauty



American grown Aster seed is now acknowledged to be so vastly superior to European grown seed that there is no reason why European grown seed should be at all considered. Even in the Early Queen of the Market type American grown seed has been found superior to European. The Royal and Crego types closely follow Queen of the Market, and these are followed by the Late Branching types.

Burpee's New American Beauty Aster is in type of growth and form of flower similar to the Late Branching, but differs in that all

the large blossoms are produced on much longer and heavier stems. In some instances stems measure more than two feet in length. It has the longest blooming period of any Aster that we know of. The large double flowers are of a bright

carmine-rose almost identical with the World's Famous American Beauty Rose.

Mr. Fred Howard of Howard & Smith, Los Angeles, California, writes March 29, 1916, in reference to American Beauty Aster: "It is in my opinion one of the most remarkable Asters which has come into bloom during the month of July, and we were still cutting from them late in September. It is unlikely that they would come into bloom so early under Eastern conditions, but if they come in later I have no doubt the season during which they flower would be equivalent. The stems are absolutely non-lateral branching. The flowers attain an enormous size owing to the fact that the entire sap flow is diverted to the one terminal bud or flower. The color is a distinct shade of carmine-rose. The addition of new colors to this new type of Asters will in my opinion prove to be a strain of great merit."

Burpee's American Beauty Aster is illustrated in color on the front cover of Burpee's Annual for 1917, and now that we have harvested a little more seed than was estimated we have decided to offer it to the Florist Trade. This Superb Aster should have a place in every Aster field. It will certainly prove its superior merit.

Packet containing 40 seeds 10 cts., packet of 120 seeds 25 cts., trade packet 1000 seeds \$1.25.

FLOWER SEEDS FOR FLORISTS

Florists and Market Gardeners, in addition to Burpee's Annual, should have Burpee's Blue List, the Market Growers' Handbook. This is a wholesale price list for commercial planters. Write for this to-day. A post card will bring it.

W. Atlee Burpee & Co.

Seed Growers

Philadelphia

CERANIUMS

\$2.00 per 100, \$18.50 per 1000 for 2-in., \$3.00 per 100, \$25.00 per 1000 for 3-in. SINGLE GERANIUMS in a good assortment. Also Scented Geraniums including Apple, Rose, Nutmeg, etc., at \$2.00 per 100 for 2 in., \$3.00 per 100 for 3-in.

MARYLAND GERANIUM, \$4.00 per 100, \$35.00 per 1000. We see no reason for recalling anything we have ever claimed for Maryland.

MISCELLANEOUS PLANTS

2-in., \$2.00 per 100, \$18.50 per 1000; 3 in., \$3.00 per 100, \$25.00 per 1000. ACHYR-ANTHES, ALYSSUM, Giant and Dwarf. ALTERNANTHERAS, 10 varieties. AGERATUM, 6 varieties. BEGONIAS, Luminosa, Vernon, Erfordii, Pfitzer's Triumph, Gracilis Rose. COLEUS, 10 varieties. CUPHEA. HARDY ENGLISH IVY. HELIOTROPE. LEMON VERBENAS. LANTANAS, 10 varieties. MOONVINES, White and Blue. PARLOR IVY. PETUNIAS, Double and Fringed, Mixed Colors. SWAINSONA, White. SCENTED GERANIUMS.

ABUTILON SAVITZII, 2-in., \$3.00 per 100; 3-in., \$4.00 per 100.

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NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toil, we ought to blame the culture, not the soil."—Pope.

Compost

Good soil is the foundation on which in starting, we rest our hopes for success with plants, ever in doubt afterward when failure strikes home, as to whether or not the soil used was really good for the purpose. Much potting and repotting, some benching and bed planting and a deal of hot-bed and frame building and filling is now to be done, for all of which the question of soil is not the least important. There should be at all seasons and at this time of the year especially, adequate quantities properly prepared and ready for immediate use within handy reach. It should be first moist enough to yield to moderate firming in the pots, not so wet as to noticeably soil the fingers in potting. For the potting of small and tender plants—rooted cuttings in particular, it should be of recent bringing in from the open, but should be given time before use to reach a warmth very nearly that maintained in the house. It would be a good plan to mix up quite a pile of a light mixture now, one that can be used for young seedlings

Habrothamnus (Cestrum)

This makes an ideal Christmas plant with its numerous flower trusses of glowing deep red. Where you have old plants that have made a good young growth of three or four inches these cuttings can be taken off and inserted in a warm propagating bed with a moist atmosphere and will soon root. Pot in light soil in 2½ in. pots and later in 4-inch, and by the end of May they can be planted out in the open ground. They will require attention as to watering and pinching back in order to induce a bushy growth. By the first week of September they can be lifted and potted in large pots using a rich, light soil, with plenty of drainage and keep shaded until they are started. Give them a temperature from 45 to 50 degrees at night and they will flower nicely for the holidays. This is another of those half-forgotten old-time flowers which should by no means be discarded, for when well grown they will find a great many admirers and buyers. *Habrothamnus elegans* is one of the stateliest and showiest of autumn and early winter flowering plants.

Lilies for Easter

Give the plants room and turn them around frequently for the next few weeks. They will have a more uniform shape and better foliage for so doing. Fumigate for aphids once or twice a week so as to prevent them from getting a lodgement among the buds. Lilies that are intended for Easter should have their cluster of buds by this time well in view. Where this is the case a temperature of about 60 degrees at night will be right for the next couple of weeks. Where they are not showing buds and have plenty of roots 65 to 70 degrees will be necessary to have the buds showing color by the 25th of

March so that they can have a few days to finish up in a cooler temperature. Those that are in bud can now have liquid manure once a week and later twice a week, but always apply it with caution. All firmly established lilies with lots of roots, when making extreme growth and pushing up their buds in a high temperature will consume great quantities of water.

Making Hot Beds

The heat will be less intense, but will last several weeks longer if the manure is quite strawy, or if tree leaves are interspread while building up the manure. A layer, nicely evened out and well trodden down, of about 18 inches height when finished, will be all sufficient from now on and less will do if the bed is made later. When you have the manure all in, spread from 4 to 5 inches of soil upon it. Place sashes on and leave air on every second sash until the violent heat has subsided when they will be ready for seed sowing or the setting of plants. Less of the heat generated by a large bulk of manure will be lost than with isolated beds and the temperature under the long line of sashes will be better equalized. Where several hotbeds are to be made it is best to have them, as far as possible in an unbroken line or in several long rows. See that all sash are repaired before they are placed on the frames.

Orchids

For a cool house a night temperature of from 50 to 55 degrees and a day heat of 65 to 70 degrees with sun will do. For the intermediate house a night temperature of from 58 to 64 degrees and for the warm house a night temperature of from 65 to 70 degrees and a day temperature of from 80 to 85 degrees with sun. On cloudy days it is wise to let it rise from 5 to 8 degrees above the night temperatures. Each plant should have daily inspection. Orchids thrive best where the atmosphere is kept pure by proper ventilation, but take care to avoid east winds and chills through the house. Most orchids will now be starting in growth and root action and will need attention in the way of watering and shading as the sun becomes stronger. Do not overdo it. When you have a little spare time sponge them off.

Reminders

During the next week bring in batches of bulbs intended for Easter.

Do not for a moment let up on cuttings. Take them off and use them as fast as they appear fit.

Keep shamrocks moist at the roots. Remember that they are only in demand for March the 17.

Many kinds of seeds ought to be sown now, among them lobelia, salvia, dianthus, marguerite carnations, alyssum and verbenas.

Next Week:—Cannas; *Conogyne cristata*; Dahlias; Early Sweet Peas for Outside; Hydrangeas for Memorial Day; Reminders.

Carnations

What shall we grow for carnation varieties this next season? That depends upon the market. If long shipments are to be made one would naturally eliminate all Enchantress varieties, White Wonder and other soft sorts. These will do locally and when the weather is hard and cool. But where shipments are to be made regularly the best keepers are none too good. In fact the first test of a variety is the number of perfect blooms to the one thousand the season through. Matchless, Pink Delight, Beacon, Benora, Mrs. C. W. Ward and Alice, of course. These are standard and an ordinary market will call for them all at some season and in some proportion. But how about Nancy, Rosette, a good crimson and some of the new sorts?

Nancy is in the Pink Delight class and may some day take the place of that grand standard variety. By watching Nancy closely at Dorner's, then last season at S. J. Goddard's, and this year at half a dozen carnation ranges, including one thousand plants studied daily at home, the story seems to me to read about this way:—

Nancy makes a large plant, roots very easily, is fragrant, even in color, has a good stem, keeps and ships with the best, never splits and is pleasing to most customers. Per contra, it is slow to bloom in the autumn, gives a rather large percentage of thin, flat blooms and sports (to a brickish red) more freely than any variety that the writer has ever seen. If you are buying plants, \$100 invested in Nancy at \$7.00 per 100 will bench more space than the same amount invested in Pink Delight, and there is where Nancy wins if she settles down to color scheme.

Are crimsons being neglected by the growers? The hybridizers are giving us some mighty fine things,

nothing to touch Pocahontas on the show table, but splendid commercial sorts, and the stores in the East appreciate their value. Several new ones are good enough to try. Doris and a seed-pod sister, No. 9, for ours.

Rosette is better than ever, thanks to the good work of patient selectors like Aubry A. Pembroke. And just as we are seeing its usefulness along comes Dorner with an improved Rosette, its seed-child, Rosalia.

There are a half dozen scarlets that make a brave showing on the exhibition table. Belle Washburn has been tried out by many growers who can tell of its worth.

In attempting to plan next season's benching some good Yankee guessing will come into play on the new sorts; but in selecting standard varieties it helps to study carefully tabulated results of past seasons. For instance, we learn that the average price for May has been two-tenths of a cent higher than for December, **while the cut has been 100 per cent greater in May.** Again, by our arrangement of varieties the December's cut has been 40 per cent. white and the May cut has been 52 per cent. white. Up to an early winter date the cut to the square foot of some sorts was as follows:

Snow White (Seedling).....	11.6	Matchless	8.6
White Winsor.....	10.5	Pocahontas	7.1
No. 9 (Seedling).....	9.7	Nancy	6.9
White Wonder.....	9.7	Pink Delight.....	6.8
Alice	9.4	Mrs. C. W. Ward.....	6.

These figures would be very misleading if one neglected to take into account the condition of the plants and their subsequent performances.

Charles S. Strunk.

Biddeford, Me.

Chrysanthemum maximum

Chrysanthemum maximum is a close relative of the common ox-eye daisy of Central Europe and the British Islands, known botanically under the name *Chrysanthemum Leucanthemum*, syn. *Leucanthemum vulgare*. The latter, according to the story was brought over here by early settlers and since then figures as a naturalized beautifier of field and meadow or as one of the most obnoxious weeds, according to the viewpoint we take. The native home of the original *Chrysanthemum maximum* is the northern part of the Iberian Peninsula, while the garden types thereof are mainly the results of crossings between *C. maximum* and the considerably taller growing *C. latifolium* of Portugal. There are quite a number of more or less distinct varieties offered in the catalogues of leading growers abroad. Most of them are well adapted for our northern boundary states but less satisfactory in the Middle Atlantic states. The beautiful tall growing Mrs. J. Tersteeg, the robust and absolutely hardy King Edward and the very large-flowering maximum "Polarstern" did splendidly in Maine. In Glenside, Pa., they proved decidedly disappointing. I am convinced that south of New England, as a free bloomer reliable in producing

perfect flowers nearly all summer, Burbank's Shasta Daisy "Alaska" so far is the best we have. For a fine floral mid-summer effect on the hardy border and for cutting it is one of the prominent items we cannot afford to be without.

In growing stock of *Chrysanthemum maximum* for commercial purposes it is best to sow every year. Early spring seedlings usually flower during the later part of the following summer. One-year-old they are strong salable plants sure to give satisfaction. Two-year-old stock should be divided and replanted in freshly manured ground particularly if we aim for a fine crop of cut flowers.

Having hardy chrysanthemums of the marguerite type under consideration, it remains to mention the Arctic daisy, *Chrysanthemum arcticum*, a native of Kamchatka and the north of our hemisphere, and *Chrysanthemum Nipponicum*, a Japanese species, both fall-flowering. The Arctic daisy, though in individual flower only half of the size of the maximum class, is of compact bushy habit of growth and during September and October literally covered by its wealth of pure white blossoms invaluable for autumn displays in our gardens. It is a perennial excellent for mass-effects meriting far more attention than it has been hitherto given.

Glenside, Pa.

Richard Rothe

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

The Easter Crop

All roses that will be in for Easter will now be showing buds. Some of the very double varieties such as Mock, Scott Key, etc., will have to be about the size of a pea. To help these along there is nothing better than liquid manure, providing the plants have had plenty of bone and tankage right along, and also that they are properly mulched. The liquid manure applied can be very strong if the plants are in any kind of shape. The only thing is to see that they are not too dry when the liquid is applied. It is much better to water with clear water first, and then follow with the liquid, applying enough to nicely saturate the soil in the benches without running much of it through. Of course if the plants are in good condition to receive the liquid manure direct, it is cheaper to apply same this way, in which case it should be used more freely, allowing it to drip through the benches. It will also be necessary to see that the plants are kept tied in order that there may not be any crooked stems which would decrease the value of the cut blooms; in fact some of the cut roses would be worthless on this account. If time will not permit tying them all thoroughly, go through and tie all that need it real badly, also branches hanging down and so on. Pay all the attention to the ventilators that is necessary in order that the growth on the crop will be kept clean from mildew, and the roses cut later will be hardy and hold up well. If the plants are not cutting, do not run the houses too cool. 62 to 64 will be perfectly safe in mild weather, and they will grow all the more freely. Keep a little air on all mild nights so that the atmosphere will be clear and sweet instead of that dead smoky air that sometimes creeps in or rather forms in the houses. Do not apply chemicals to the benches, as a large percentage of the buds will come deformed and almost unsalable.

Care for the Greens

Perhaps these have been a little neglected with the rush of potting and propagating; now, however, with Easter coming on, it will pay to look over all the cross houses and see what can be done to speed the greens up a little more. If they need mulching, apply horse manure. It is much better for them than the cow manure. Smilax and asparagus can be given a little nitrate once in a while too, and soot, which will give a very good color. The temperature can be kept up near seventy all the time until just before the crop is ready for the market when it can be dropped down to fifty or less in order to harden the greens. If the soil appears to be sour a little lime will not hurt. Apply this as carefully as the lime is applied to the rose benches, for as the saying goes "if the job is worth doing at all, it is worth doing well." Do not neglect to string all the smilax on time, and if your market calls for strings with asparagus, see that these are put on in time. Often a crop will be set behind two weeks or more just because the strings were not there when they were needed. It is now time too, to get some seed started for next

season's young plants. If there are real old plants in the houses throw them out. They never produce the stuff that the young plants will, and what they do produce is bound to be long, which in most cases is not wanted. Young plants will produce a large number of short ferny fronds, and these as a rule sell well in the market. Figure on setting the plants quite close together—say eight by six. This will give them plenty of room, for the fronds will likely be cut as fast as they are ready and the amount taken in for a square foot this way will be far greater than if they are planted much further apart. For best results get northern greenhouse-grown seed, making sure to get the plumosus nanus, not merely the plumosa. The same with smilax; the first cost may be a little more than for cheaper seed but it will come back and more on the returns in the long run. Use liquid manure even more freely than it is used in the rose houses, being careful not to wet the foliage of either smilax or asparagus as this would smell badly when cut should it be directly after watering, and it is liable to discolor. When cutting greens for market give good count, and put in only good stuff. You may get away with poor stuff in the bunches once or twice but you will lose in the long run.

The Flower Shows

Be sure to attend these, even if you have to run right through without stopping for any length of time. Send as many of your growers as possible too. All hands will come back with a new interest in their work, and with something to talk about besides hard times. There will be many new roses, as well as other new flowers of all sorts shown and it is well to know about all these, the new houses being built, new boilers and all the different things in our line too numerous to mention. Exhibit if you can. You will then see how your product looks side by side with that of your fellow florists, and you may be surprised to find things about your stuff which you never noticed before. Go to the flower show.

Manure for the Late Mulches

Keep the manure coming in all the time, unless there is a certainty of getting it when you want it. To our knowledge this is not a simple matter here in the East. Western places perhaps have better supplies. Store it as best, which should be in a covered shed if possible with a concrete floor, drained into a tank. Turn the manure over as often as time will permit and see that it is kept wet enough so that it will not burn, for manure that is burned is nowhere near as valuable as properly cared-for manure. The plants will easily take a mulch early in June if they are to be run into July, and the roses that will be cut will more than pay for the extra manure and labor. If there is no other way to store the manure put it on top of some low sod heap so that if there is any leaching the sod underneath will take it all up and there will be no liquids wasted. It is the liquid that is most valuable as plant food, and if this is allowed to run away with surface water or soak into the ground where the manure is stored, it will be a big loss to the grower.

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A treat for the carnationists

Our carnation friends will find the series of timely notes by C. S. Strout of Biddelford, Me., which appear in our columns from time to time, very timely, interesting and suggestive. Mr. Strout is widely known among the carnationists of the entire country as standing in the front rank of the successful New England carnation growers and in the market his product commands the top figures always. Add to all this the literary excellence, individuality and lucid style of his writings and we think our announcement at this time that Mr. Strout will continue these articles in HORTICULTURE all through the season will come as most welcome news to the carnation world.

Courting retribution

We were surprised, and also rather shocked, to read in one of the cultural columns of the latest issue of The Gardeners' Chronicle of London, "As the buds begin to swell keep a sharp look-out for birds and either trap or shoot them." We cannot imagine any crop of flowers or fruit, or even any economic conditions, that would justify giving or following such unconditional and

drastic counsel for the disturbing of Nature's balance. Rough-hewn as we may be in this young country as compared with the older civilizations, yet there are now but few of our states in which such ruthless slaughter as suggested in the above quotation would not incur a heavy penalty. When such cold-blooded and ignorant advice finds currency and is admitted without qualification to the columns of a horticultural journal long recognized as a leader, is it surprising that insecticides are becoming more and more of a necessity and that the loss from insect devastation mounts higher each year?

"And thus the whirligig of time brings in his revenges."

An alluring field

A canvas of the flower growers in all sections of this country would show that quite a percentage of those so engaged had previously followed truck growing or vegetable forcing and had abandoned it for what appeared to be or was at the time—a more lucrative business—the growing of flowers. Present conditions in the food market will, no doubt, induce some of these converts—and maybe some of those who have been exclusively flower-growers hitherto—to turn envious eyes on "The life of the husbandman—a life fed by the bounty of earth and sweetened by the airs of heaven" (and a record price for the product), thinking as to whether vegetable growing, both outdoors and under glass, might not be the better branch of the business for a while at least. The H. C. L. problem is not agoing to be settled in a day and there appears nothing in the situation that indicates a likely return to former market values for food products for some time to come, if ever. Growers will reflect that the same situation which would make food products soar would be apt to have an adverse effect on the fortunes of the flower trade and we may expect to see some of them act accordingly, with the result that flower surpluses may yet be largely a memory.

Back to the soil

What cares he now for frost or fog
 Since in his glorious catalogue
 The glad suburbanite can see
 The garden that is going to be?

—Boston Traveler.

The paper from which the foregoing inspiring stanza was clipped is giving several columns daily to home garden topics and in doing so is but one of hundreds of papers all over the country that are devoting liberal space to this timely work. The public and the press are just coming to a realization of the gold-mine that lies under their feet and around them needing only to be worked. "Thrift Gardens" they call them in St. Louis. The utilization of backyards, vacant lots and waste grounds is urged as a remedy for the H. C. L., a wholesome and profitable exercise of mind and body and an education in preparedness and economy. Boston experts estimate that there are from 6000 to 8000 acres of tillable land in that city which could be developed into vegetable gardens, to offset in a measure the high cost of living, as well as to teach school children the principles of gardening. Too much cannot be said in favor of the movement. It carries with it the eager support of the daily newspapers and the magazines and many well-meant plans are laid out for the instruction of the masses in the knowledge of gardening. But they should more fully realize that a better manual for elementary or advance garden practice than the seedsmen's catalogues—the majority of them, at least—would be hard to find, and the newspaper horticulturists are sometimes a little "off" in their suggestions. The much derided suburbanite has now the opportunity of his life to chuckle and turn the tables on the scoffer. "He laughs best who laughs last."

CLUBS AND SOCIETIES

CHICAGO FLORISTS' CLUB.

Novelty Show and Jubilee.

The Good of the Club Committee, Geo. Asmus, chairman, has completed arrangements to hold a Novelty Show and Jubilee at the New Morrison Hotel, Thursday afternoon and evening, March 8th. Special arrangements have been made to entertain a large attendance of the trade, and every florist is invited.

Growers of novelties and members of the club are especially invited to send exhibits of cut flowers and plants, which will be displayed in the New Morrison Hotel parlors, B-5 and B-6. Send all exhibits express prepaid to A. Zech, Flower Show, Care of New Morrison Hotel, Chicago. Please arrange to have your exhibits reach destination Thursday morning, March 8th. Guy French has been appointed manager of this show, and will see that all exhibits sent will be displayed to the best advantage. The exhibition will be open for inspection from 3 P. M. to 10.30 P. M., and arrangements are now being made to invite the public.

The Jubilee will be in the form of a fine chicken dinner, which is announced to take place promptly at 6.30 P. M. on same floor as the floral exhibition. Every one in the trade should attend and bring a guest. Please notify F. Lautenschlager, 440 W. Erie St., Chicago, immediately how many reservations you wish. The dinner will be served at \$1.50 per person (refreshments and cigars with compliments of the Chicago Florists' Club).

The Jubilee is in honor of the Illinois University students, who will attend our meeting and exhibition. Every one in the trade should meet these young men; they have promised to bring a very interesting exhibit from the university greenhouses.

COME—COME—let's make this the banner meeting of the year.

CHICAGO FLORISTS' CLUB
PUBLICITY COMMITTEE,
F. LAUTENSCHLAGER, Chairman.

HORTICULTURAL SOCIETY OF WESTERN PENNSYLVANIA.

The meeting on February 20th was well attended and very lively. A letter from the chairman of the Flower Show Committee was read accepting the gift of a prize for the show in June. Sabin Bolton was selected as the delegate to the Davey Convention at Kent, Ohio.

This was carnation night. Among the exhibits were some from Mr. C. D. Armstrong, gard. Thomas E. Tyler, which received a cultural certificate, Benora being by far the best grown in the city of Pittsburgh for a long time. Mr. Tyler was also given a cultural certi-

Meetings Next Week

Monday, March 5.

Bernardsville Horticultural Society, Horticultural Hall, Bernardsville, N. J.
Elberon Horticultural Society, Fire Hall, Elberon, N. J.
Houston Florists' Club, Chamber of Commerce Rooms, Houston, Tex.
Montreal Gardeners' and Florists' Club, Montreal, Canada.
New Bedford Horticultural Society, New Bedford, Mass.
Washington Florists' Club, Washington, D. C.

Tuesday, March 6.

Florists' and Gardeners' Club of Holyoke and Northampton, Mass.
Lake Geneva Gardeners' and Foremen's Association, Horticultural Hall, Lake Geneva, Wis.
Los Angeles County Horticultural Society, Los Angeles, Cal.
Paterson Floricultural Society, Y. M. C. A. Bldg., Paterson, N. J.
Florists' Club of Philadelphia, Horticultural Hall, Philadelphia, Pa.
Pittsburgh Florists' and Gardeners' Club, Fort Pitt Hotel, Pittsburgh, Pa.

Wednesday, March 7.

Tuxedo Horticultural Society, Tuxedo Park, N. Y.

Thursday, March 8.

Menlo Park Horticultural Society, Menlo Park, Calif.
New London Horticultural Society, Municipal Bldg., New London, Conn.

Friday, March 9.

Connecticut Horticultural Society, County Building, Hartford, Conn.
Westchester and Fairfield Horticultural Society, Doran's Hall, Greenwich, Conn.

Saturday, March 10.

Dobbs Ferry Gardeners' Association, Dobbs Ferry, N. Y.

ficate for *Odontoglossum*. Mr. McNamara received a similar award for a fine collection of winter vegetables. Other exhibits were *Ophelia* roses by Walter James and sweet peas by A. A. Leach. Visitors of the evening were F. E. Conine, Stratford, Conn., and Mr. Smart from Knight & Struck Co.

NEW YORK FLORISTS' CLUB.

The next meeting of the New York Florists' Club, Monday, March 12th, will be Rose Night. The exhibition committee will be pleased to receive exhibits of roses, new and standard varieties, from any rose grower in the United States for exhibition on this occasion. We expect to have a large display of roses this night and are now in touch with all the leading rose growers in the country.

All shipments by express must be received in New York not later than 6 P. M., Monday, March 12th, addressed to John Young, No. 53 West 28th street, New York City, marked "For Exhibition."

The Retail Florists' Association of St. Louis have elected officers as follows: President, F. H. Weber; vice-president, Theodore Miller; secretary, Marion Ahlschmidt; treasurer, F. C. Weber, Jr.

CONNECTICUT HORTICULTURAL SOCIETY.

At the fortnightly meeting of this society, February 23, Wallace R. Pierson opened a discussion as to the effect of the proposed bill prohibiting the importation of fruit trees, shrubs, bulbs, etc. Mr. Pierson is heartily in favor of the bill, but before its final passage he thinks it will not include seeds and bulbs, as diseases and insect life are not likely to be introduced into this country through that source. He also believes that we can grow better stock, especially for rose grafting, than has been supplied by Belgium, and the same applies to bulbs and azaleas. With the three-year leeway allowed by the bill, Mr. Pierson is of the opinion that no hardships will be placed upon the growers in this country through the curtailment of importations.

C. H. Sierman, one of Hartford's leading landscape gardeners, was inclined to the belief that such stock as landscape gardeners use can be grown in this country. He feels that it will be a hardship at first, but the nurserymen will take the bull by the horns and eventually it will work to their advantage.

John F. Huss stated that it would be a detriment to him, as private places demand novelties, and the greater part of that class of stock was imported.

Warren S. Mason strongly favored the bill. The society extended to Mr. Pierson a hearty vote of thanks.

H. R. Hurd, gardener of the Beach estate, West Hartford, exhibited some very fine cinerarias and received a cultural certificate.

The June Flower Show committee will get together on Tuesday evening and make plans. A. DIXON, Secy.

Hartford, Conn.

CONNECTICUT NURSERYMEN'S ASSOCIATION.

The eleventh annual meeting of the Connecticut Nurserymen's Association was held at Hotel Garde, Hartford, Conn., Wednesday, Feb. 21st. We had a very interesting session. The question of Foreign Importation, diseases of plants, etc., was discussed and much information relative to the latter was obtained through our being favored with addresses from such able speakers as Dr. W. E. Britton, State Entomologist; Dr. Geo. B. Clinton, State Botanist; Mr. W. O. Filley, State Forester; F. B. Kelley and others.

Under election of officers, F. S. Baker, of Cheshire, Conn., was elected president; C. F. Brainard, of Thompsonville, vice-president; F. L. Thomas, Meriden, Conn., re-elected secretary, and W. W. Hunt, of Hartford, re-elected treasurer. F. L. THOMAS, Secy.

The North Shore Horticultural Society, Manchester, Mass., has selected Wm. Till and A. E. Parsons, with Eric Wetterlow and Axel Magnusen alternates as delegates to the Davey Tree Expert Convention at Kent, Ohio.

"HAMBURG LATE WHITE" CHRYSANTHEMUM

CERTIFICATE OF MERIT AWARDED BY CHRYSANTHEMUM SOCIETY OF AMERICA.



Above picture was taken Nov. 26, 1916, and will give a good idea of what "Hamburg Late White" looks like when grown to single stems and planted six inches each way.

Rooted Cuttings, \$12.00 per 100; \$100.00 per 1000.

2 inch pots, \$15.00 per 100; \$125.00 per 1000

WILLIAM F. KASTING CO.,

568-570 Washington Street
BUFFALO, N. Y.

"Hamburg Late White" is pure white under all weather conditions and is a sport of Maud Dean white, but has no trace of pink, as the original.

The average grower of chrysanthemums must have varieties which are easy to handle and from which he can cut as near 100% of perfect blooms as possible. "Hamburg Late White" has been grown for the last four years and produces a very high proportion of good flowers. It is not an exhibition variety, but for late white, one of the best for commercial purposes. It can be had in bloom the latter part of November, by taking an early bud; but by selecting later buds, most of the flowers are cut during December and we would advise to select a late bud, as the later buds come somewhat fuller, and by selecting late buds, flowers can be had as late as the middle of January.

Keeping qualities are excellent and where a light, graceful white flower is wanted, "Hamburg Late White" cannot be surpassed.

"Hamburg Late White" will be disseminated in the Spring of 1917. Plants will be ready April 1st, 1917, and all orders will be filled in rotation.

NEW YORK GETTING READY.

The New York Florists' Club has its "hands full" for this season and does not intend to get behind-hand in preparedness. At a meeting of the executive committee on Wednesday of this week at the secretary's office, there were present Geo. E. M. Stumpp, chairman, P. B. Rigby, F. R. Pierson, Chas. H. Brown, P. F. Kessler, A. L. Miller, F. H. Traendly, T. B. deForest, J. G. Esler and E. C. Vick, representing about every branch of the business and the preparatory work for the big August Convention is well underway. A more capable bunch of workers it would be hard to get together. The flower show committee had their usual session on Monday. It was a very enthusiastic meeting and all sub-committees reported "Ready". Secretary Young reported \$14,000 worth of trade space sold, \$4,000 worth of advertising in the catalogue and 18,000 trade tickets sold. "That's going some."

GIANT SWEET PEAS

Editor of HORTICULTURE:

Referring to your two articles and pictures of "Giant Sweet Peas," as grown by C. W. Ward and William Sim, would say that sweet peas grow about as good in Connecticut as any other place in the U. S. A. I am sending you herewith a photo of a few Yarrowa in their third month of flowering. They were 15 feet high on the 10th of February when this picture was taken. A cultural certificate was awarded to a vase of them, with 20-inch stems of four flowers each, at the Feb. 2d meeting of the Stamford Hor-



SWEET PEA YARROWA.

Photographed February 10, 1917, by Anthon Pedersen, "Fairlawn," Stamford, Conn.

tical Society. The bench is but 20 feet long so of course the picture does not show off as well as those from Messrs. Ward and Sim but the height and vigor is shown plainly.

ANTHON PEDERSEN.

A SPECIALIST IN MINNESOTA

In C. S. Harrison's notes on irises last week that gentleman spoke in high terms of the work done by W. E. Fryer of Mantorville, Minn., on the iris, mentioning that he had 300 varieties under cultivation, but Mr. Fryer says he has tested 500 varieties besides his new seedlings. These latter are described by those who have seen them as including many that are of unexcelled beauty. Mr. Fryer has also accomplished much in hardy phlox hybridization. Clarence Wedge, a foremost horticulturist of Minnesota, has written a very enthusiastic account of Mr. Fryer's place and what is to be seen there, and same has been published in "The Farmer" of St. Paul. Gladioli, dahlias and peonies are specialties as well as the phlox and iris. The fame of the Fryer irises has even reached Boston and neighborhood, several shipments of plants having been made last season.

New Haven, Conn.—The park department is about to acquire a stretch of land averaging from 25 to 75 feet in width along Mill river from State street north to East Rock park, for use in connection with the proposed park on the present meadowland. In many instances the slicing will deprive owners of their back yards and in one

RYNVELD BROTHERS

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We specialize in Darwin, May-Flowering, Breeder and Rembrandt Tulips

Our new list ready, Free on Application

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and Roses.

Write for Trade List.

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AZALEAS, CONIFERS, CLEMATIS,
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P. O. No. 1, Hoboken N. J.

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Section of land must be cleared, and while quantities last we will quote ROCK BOTTOM PRICES. Name items and quantities that interest you.

- | | |
|---|--|
| 500 White Spruce, 4-9 ft. | 2000 Button Bush, 18-24 in. |
| 1000 Koster's Blue Spruce, 2-4 ft. | 1000 Spiraea opulifolia, 3-4 ft. |
| 1000 Colorado Blue Spruce, 3-5 ft. | 500 Common Hazel, 3-4 ft. |
| 1500 Norway Spruce, 3-6 ft. | 500 Clethra alnifolia, 2-3 ft. |
| 1000 Fraser's Fir, 3-5 ft. | 2000 Lycium barbarum, 3 yrs. |
| 200 Balsam Fir, 6-8 ft. | 500 Prunus Pumila, 2-3 ft. |
| 500 Red Cedar, 3-4 ft. | 500 Sumach, Glabra, 4 ft. |
| 500 Hemlocks, 3 ft. | 500 Sumach typhina, 4 ft. |
| 500 Jap. Yew, (Upright), 3 yrs. | 1000 Spiraea salicifolia, 3-4 ft. |
| 500 Variegated Euonymus radicans, 3 yrs. | 500 Spiraea tomentosa, 2-3 ft. |
| 500 Acer ginnale, 4-5 ft. | 500 Viburnum lantana, 3-4 ft. |
| 500 Acer ginnala, 4-5 ft. | 500 Viburnum Bush Cranberry, 3-4 ft. |
| 6000 Carolina Poplars, 5-9 ft. | 500 Viburnum Common Snowball, 3-4 ft. |
| 5000 Lombardy Poplars, 5-7 ft. | 500 Symphoricarpos vulgaris, 2-3 ft. |
| 500 European Larch, 7-8 ft. | 2000 Bitter-Sweet (Celastrus), 3 yrs. |
| 300 Balsam Poplars, 7-8 ft. | 2000 Trumpet Vine (Tecoma), 3 yrs. |
| 300 Golden Hop Trees, 3-4 ft. | 2000 Sweet Briers, 3 ft. |
| 1000 White Willows, 4 ft. | 500 Rose Hiawatha, 2 yrs. |
| 8000 Laurel, or Glass Willows, 3-5 ft. | 500 Achillea, The Pearl, 2 yrs. |
| 500 Regal Willows (Regalis), 3-4 ft. | 2000 Shasta Daisies, 2 yrs. |
| 500 Jap. Crab (P. Baccata), 4-5 ft. | 1000 White Iris Siberica, 2 yrs. |
| 2000 Golden-Barked Willows, 4 ft. | 1000 Blue Iris Siberica, 2 yrs. |
| 400 Bird Cherry (Padus), 3-4 ft. | 500 Monarda (Balm), 2 yrs. |
| 500 Hornbeam, 3 ft. | 500 Astilbe Japonica, clumps. |
| 2000 Red-Barked Cornel, or Dogwood, 3-4 ft. | 10000 Vinca minor, 2 yrs. |
| 400 Butterfly Bush 3 yrs. | 500 Ajuga reptans, 2 yrs. |
| 2000 Jap. Quince, 2 ft. | 500 Boltonia asteroides, 2 yrs. |
| 2000 Scotch Broom, 2-3 ft. | 500 Hemerocallis, mixed, 2 yrs. |
| 500 Broom (tinetoria), 2 ft. | 500 Pachysandra, 2 yrs. |
| 500 Hypericum Moserianum, 2 yrs. | 500 Ranunculus (Buttercup), 2 yrs. |
| 1500 Bush Honeysuckles, 3-4 ft. | 500 Sedum spect. (Variegated leaf), 2 yrs. |
| 1000 Dwarf Syringa, 2 ft. | 3000 Hydrangea P. G. 18 to 24 inches, bushy and very strong. |
| 1000 Buckthorn, Catharticus, 3-4 ft. | |
| 500 Buckthorn, frangula, 3 ft. | |

THE NEW ENGLAND NURSERIES CO., BEDFORD, MASS.

NEW RED ROSE — DONALD MacDONALD

A new Hawlmark Red Rose sent out this year by Alex. Dickson & Sons

We have tested this Rose for Winter forcing for two years, and with us it produces more red roses during the winter than any Rose we have ever grown. It is not a large Rose, but has perfectly formed medium sized flowers that sell at sight. Color bright orange carmine; will not turn blue; because the base of the petals is orange. It is not a summer rose, as it has the same substance as Killarney. We build the plants up until November, and from Thanksgiving until May it is a money maker for the Rose Grower, as no pinching is necessary.

Strong Grafted Plants, \$35.00 per 100; \$300.00 per 1000

Own Root Plants, \$30.00 per 100; \$250.00 per 1000

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IF in need of RELIABLE NURSERY STOCK

that is well grown, well dug and well packed

Send to the BAY STATE NURSERIES

Wholesale and Retail

NORTH ABINGTON, MASS.

or two instances outbuildings will have to be destroyed. The bank of the river along the section the city proposes to acquire slopes steeply to the river's edge and is practically useless for buildings or other purposes. The land will be planted with shrubbery and made artistic, thus being a big asset to the beauty of the park. All of the land on the opposite side of the river is now owned by the city.

DURING RECESS.

Detroit to Wallop Cleveland.

Our club meets regularly Thursday nights for bowling, the last meeting being February 22nd, when enthusiasm waxed high over the coming contest with the Cleveland bowlers. Many of the regulars have been benched and rebenched over their inability to make strikes, and one or two "dark horses" have appeared who find it hard to make less than a 200 score. All in all our worthy Captain Geo. Streit has prepared a team which will be a certain winner.

Messrs. Jerry Stock and Fred Pautke two old rivals at the game, have been specially delegated to bring back the trophy which Cleveland carried away at the last visit.

Following are the scores for the week:

Rob. Jean.....	124	120	127
M. Constantine.....	176	129	136
F. Dolske.....	119	117	127
A. J. Stahelin.....	132	125	100
Rob. Rahaley.....	162	140	131
H. Taylor.....	166	202	159
J. M. Hugh.....	132	143	137
N. Sullivan.....	154	167	138
J. K. Stock.....	160	140	127
J. Dunn.....	137	142	136
F. Holznagle.....	138	189	141
H. Forster.....	158	148	121
A. Sylvester.....	102	126	139
E. Moss.....	118	143	156
E. A. Fetters.....	179	156	142
John Klang.....	175	175	117
Fred Pautke.....	160	144	152
Kirkpatrick.....	175	158	155
Pautke.....	87	132	124
J. Streit.....	134	184	165

Florists' Club of Hartford, Conn.

A meeting and banquet of the Florists' Club of Hartford was held Tuesday evening, February 20, in Hotel Bond. Thirty-six florists were present and were entertained by the Mozart Society orchestra. Joseph McManus presided as toastmaster. Wallace R. Pierson, of Cromwell addressed the party on the value of advertising. Among other things he suggested that the Florists' Club and the Connecticut Horticultural Society should unite and give the public of Hartford a flower show of such magnitude that it would put Hartford on the map as an exhibition center. He said the finest rose garden in America was located in Hart-

ford, and Hartford was one of the most beautiful cities in the country. He expressed the hope that the club would grow in size and influence so that it might be successful in prevailing upon the American Carnation Society or the American Rose Society to hold meetings here. Other speakers included the president of the club, also Andrew W. Welch, W. Wallace Thomson, George F. Lane, and Herman J. Miller.

OBITUARY.

A. A. Reed

A. A. Reed, for many years engaged as a florist in Whitman, Mass., latterly senior member of the firm of A. A. Reed & Son, died on Monday night, February 26. Mr. Reed leaves a widow, one son and one daughter. He was 78 years old and a veteran of the Civil War.

David W. Duncan.

David W. Duncan, Arlington, Mass., died on February 22 of stomach trouble. Mr. Duncan was born in Scotland 50 years ago. He was a florist and 25



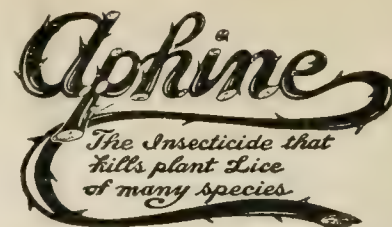
DAVID W. DUNCAN.

years ago came to Arlington, going into the business of raising flowers, which he made a success. He had many friends. Funeral services were held on Sunday afternoon in his late home at 133 Mystic street. The services, which were conducted by the Rev. Charles Taber Hall, rector of St. John's Episcopal Church, Arlington, were attended by members of the Odd Fellows' lodge of which he was a member. Burial was in Mt. Pleasant cemetery, Arlington.

CATALOGUES RECEIVED.

Rynveld Brothers, Lisse, Holland. Also New York. Wholesale Catalogue of Darwin, Mayflowering, Breeder and Rembrandt Tulips.

Peter Henderson & Co., New York—Implement and Lawn Catalogue. Very complete in its special field. Profusely illustrated and "covers the ground." Also Henderson's Farmers' Manual for 1917. A fine illustrated list of cereals and other farm products.



The Recognized Standard Insecticide. A spray remedy for green, black, white fly, thrips and soft scale.

Quart, \$1.00; Gallon, \$4.50.

NIKOTIANA

A 12% nicotine solution properly diluted for fumigating or vaporizing.

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Until further notice shipments on our products FUNGINE, VERMINE and SCALINE will be subject to conditions of the chemical market.

Prompt shipments can be guaranteed on APHINE and NIKOTIANA.

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Save your plants and trees. Just the thing for greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrips, Red Spider, Black and Green Fly, Mites, Aunts, etc., without injury to plants and without odor. Used according to direction, our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pets. Excellent as a wash for dogs and other animals. Relieves mange. Dilute with water 30 to 50 parts.

1/2 Pint, 25c.; Pint, 40c.; Quart, 75c.;

1/2 Gallon, \$1.25; Gallon, \$2; 5 Gallon Can, \$9; 10 Gallon Can, \$17.50.

Directions on package.

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BRAND

CONCENTRATED PULVERIZED MANURE

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The Florists' standard of uniform high quality for over ten years. Specify: **WIZARD BRAND** in your Supply House order, or write us direct for prices and freight rates.

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Quarts, 55c. Gallons, \$1.65
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Try with 24 parts water. Often effective weaker.

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Rochester, N. Y.—Charles Felton, Buffalo.

St. Louis—W. J. Vesey, Fort Wayne, Ind.; Robt. Newcomb, Chicago; J. J. Karins, Philadelphia.

Pittsburgh—T. T. Fryer, the Tajimi Co., New York City; Martin Reukauf, of H. Bayersdorfer and Co., Phila.; Julius Dilloff, New York; Edward J. Fancourt, S. S. Pennock-Meehan Co., Phila.

Philadelphia—H. L. Holmes, Harrisburg, Pa.; C. B. Coe of D. M. Ferry & Co., Detroit, Mich.; William Stubbs of Wood, Stubbs & Co., Louisville, Ky.; Mr. and Mrs. James Brown, Coatesville, Pa.; N. J. Hayman, Clarksburg, W. Va.

Boston—Walter Mott, rep. Benj. Hammond, Beacon, N. Y.; H. C. Neubrand, rep. A. N. Pierson, Inc., Cromwell, Conn.; J. J. Lane, rep. The Garden Magazine, Garden City, N. Y.; A. F. Faulkner, rep. The American Florist Chicago; Oscar Schulz, Newport, R. I.; Mr. and Mrs. Reinhold Schiller, Chicago.

Washington, D. C.—J. W. Niestlie, of William Rehder, Wilmington, N. C.; H. J. Ware, of Maltus & Ware, and Mrs. Ware, Oradell, N. J.; Jack D. Papendrecht, of Warnaar & Company, Holland; Joseph J. Goudy, of H. A. Dreer & Co., Phila.; C. K. Dusel, New York; A. E. Kunderd, Goshen, Ind.; F. Sitterding, Jr., Richmond, Va.; a representative of F. Rynveld & Sons, Hillegom, Holland; Eugene Dailedouze, Brooklyn, N. Y.

GREENHOUSES BUILDING OR CON-TEMPLATED.

Fontana, Wis.—M. P. Quinn, two houses.

Clayton, Mo.—Samuel C. Davis, one house.

Bridgeport, Conn.—Bedford Gardens, one house.

Two Rivers, Wis.—Emil Hoefert, one house.

Terre Haute, Ind.—Davis Gardens, five houses.

Marion, Mass.—George W. Mitton, Hitchings house.

Manhasset, N. Y.—A. Kottmiller, range of houses.

Albion, Mich.—A. H. Dew, two houses each 36 x 150.

Wauregan, Ct.—Hillcrest Greenhouses, house 20 x 200.

Woburn, Mass.—Arnold & Fisher, two houses each 40 x 300.

Toledo, O.—Hecklinger Bros., 193 Seaman St., range of houses.

Muskogee, Okla.—Muskogee Greenhouse Company, four 224 ft. Dietsch houses; Muskogee Carnation Company, two 120 ft. Dietsch houses.

The Philadelphia office of the King Construction Company reports sales of greenhouses as follows:

Complete Materials and Erection.—White Haven, Pa., White Haven Sanitarium, house, 25 x 100. Glen Cove, N. Y., J. R. De Lamar, fruit house, 244 ft.; house, 21 x 200; house, 21 x 125; conservatory, 21 x 42. Wilkes

Barre, Pa., C. Steigmeyer, house, 14 x 75. Wilkes Barre, Pa., John Conyngham, palm house, 18 x 52; house, 11 x 70; rose house, 19 x 42. Wilkes Barre, Pa., William Lord Conyngham, house, 24 x 50. Laverock, Pa., Alfred C. Harrison, house, 25 x 75; service building, 25 x 27. Allentown, Pa., Col. H. C. Trexler, house, 35 x 125. Bryn Mawr, Pa., Mrs. C. W. Hacker, conservatory, 10 x 15. Scranton, Pa., Mrs. Harriet Burr conservatory. Weatherly, Pa., Middle Coal Field Poor District, house, 21 x 75. Enfield, Pa., John Welsh Young, house, 35 x 300. Chestnut Hill, Pa., Samuel F. Houghton, conservatory, 16 x 34. Elmira, N. Y., U. S. Cut Flower Co., two houses, each 37 x 250. Binghamton, N. Y., O. A. Ellwell, house, 21 x 50.

Materials Only.—Marlton, N. J., Walter B. Winner, house, 35 x 75. Camden, N. J., Daniel G. Deacon, house, 20 x 42. Philadelphia, Pa., J. William Colfesh Sons, 53d and Woodland ave., four houses, each 14 x 50. Germantown, Phila., Pa., Zieger & Sons, house, 42 x 100; house, 35 x 100. Lancaster,

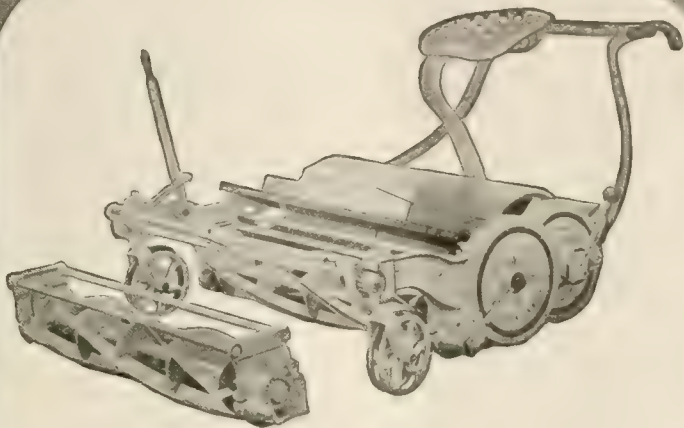
Pa., B. F. Barr, two houses, each 24 x 40. Bird in Hand, Pa., H. B. Weaver, house, 32 x 225; house, 28 x 225. Lancaster, Pa., E. Lefever, house, 25 x 60. Harrisburg, Pa., S. M. Erb, house, 40 x 100. Ronks, Pa., Chas. Weaver, house, 34 x 305; house, 21 x 305. Strasburg, Pa., Wade Gayley, house, 35 x 140. Scranton, Pa., Anton Schultheis, three houses, each 35 x 150; boiler house, 35 x 35. Reading, Pa., Fred Frank, house, 21 x 100; house, 28 x 100.

PATENTS GRANTED.

1,215,627. Seed Plate and Agitator Mechanism for Planters. Delmar D. Dooley, Rock Island, Ill.

1,215,986. Combination Flower Pot and Reflector. Arthur Edward Pohlman, Watertown, Wisc.

1,216,642. Irrigating Device for Plants. Roy White, Lamar, Colo.



COLDWELL HORSE MOWER with DEMOUNTABLE CUTTERS

IN this type of COLDWELL HORSE MOWER, if the DEMOUNTABLE CUTTER UNIT needs sharpening, just take it out. It is independent—easily removed.

Replace it with the second set of knives which COLDWELL furnishes with every DEMOUNTABLE CUTTER UNIT Mower.

Four locking screws adjust the cutter units. The whole operation is simple. You lose no time waiting for knives to be sharpened.

Your machine is always ready for work. You will appreciate the convenience of two cutter units and the easy adjustment.

Another feature of Coldwell construction protects the knives from twist and strain over rough ground.

Write for illustrated catalogue, giving full particulars of the Coldwell line—Combination Roller and Motor Mowers, both Ride and Walk Types, the new 1917 Threesome (87" swath) and Horse and Hand Mowers in 150 styles and sizes.

The output of the Coldwell factories includes lawn mowers of every description—for every purpose. The name "Coldwell" has been familiar in the markets of the world for more than forty years.

COLDWELL LAWN MOWER COMPANY

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One Week's Imports.

Imports at the port of New York, of horticultural material, for the week ending Feb. 16th, were recorded as follows:

Bulbs—France, \$2; Netherlands, \$810; England, \$163; Japan, \$88.

Plants and trees—France, \$9,868; Spain, \$305; England, \$1,129; Japan, \$59.

Grass seed—Ireland, \$2,113.

Other seeds—Denmark, \$16,033; France, \$1,197; Portugal, \$3; England, \$1,549; Argentine, \$1,336; Hongkong, \$162; Japan, \$3,743; Netherlands, \$395; Spain, \$2,523.

Nitrate of soda—Chile, \$76,670.

Dried blood—Argentina, \$746.

Bermuda Onions in Texas.

The Truck Crop Specialist of the Bureau of Crop Estimates, who is now making a tour of the onion fields of Texas, reports that the onions in Nueces County are at a standstill on account of the drouth, but that no damage was caused by the cold wave of February 1 to February 6, 1917. In the Lower Rio Grande Valley the onions were slightly damaged by the cold wave, but at Laredo they appear to have suffered considerably more, especially the earlier plantings. The later plantings are not very materially hurt. The Specialist also states that apparently the thrips have not caused any damage as most fields appear free from the pest. The pink root seems to be very general at Laredo, but the damage will depend on weather conditions at time onions begin to bulb. It is estimated that the crop is three weeks later than last year.

Correspondents in Frio County report that onions suffered severely in this district. Due to the fact that no rain accompanied the cold wave, the tops of the onions were cut to the ground and the efforts of the plant to make new tops will be retarded by the thrip, which has made its appearance.

In Dimmit County it is estimated by some reporters that about 10 per cent. of the late plantings were killed by the cold wave and the crop will be

PIN MONEY MUSHROOM SPAWN

8 lb. for \$1.00

Directions Included

WM. ELLIOTT & SONS
42 Vesey St., New York



MICHELL'S NEW CROP

ASPARAGUS PLUMOSUS NANUS

NORTHERN GREENHOUSE GROWN SEED

1,000 Seed	\$3.50	10,000 Seed	\$30.00
5,000 Seed	15.50	25,000 Seed	72.50

Special Prices on Larger Quantities

ASPARAGUS HATCHERI SEED

100 Seed	\$.75	500 Seed	\$3.00
		1,000 Seed	\$5.00

ASPARAGUS SPRENGERI SEED

1,000 Seed	\$.75	10,000 Seed	\$5.50
5,000 Seed	3.00	25,000 Seed	12.50

ALSO ALL OTHER SEASONABLE SEEDS, BULBS AND SUPPLIES. SEND FOR WHOLESALE CATALOG.

HENRY F. MICHELL CO.

518 Market Street

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SEEDS for the FLORIST

ASTERS QUEEN of the MARKET.

The best extra early variety, large, double flowers, on long stems, in colors: Crimson, Dark Blue, Light Blue, Rose, Peach Blossom, White.

Trade Packet, 20c., Oz., 75c.

Sweet Peas, Cyclamen, Primulas, Lily of the Valley, from Our Own Cold Storage Plant.

Our Trade List Mailed on Application.

FOTTLER, FISKE, RAWSON CO., THE SEED STORE BOSTON
Faneuil Hall Square

"Seeds with a Lineage" All Varieties
Thoroughly tested at our trial grounds, Raynes Park, London, England. Send for Catalogue
CARTERS TESTED SEEDS, Inc., 166 Chamber of Commerce Bldg., Boston, Mass.

set back fifteen days or more. The ravages of the thrip seem to have been checked by the cold wave.

In Zavalla County it is estimated that the crop has been damaged about 25 per cent. by the cold wave, but it is stated that on account of weather conditions no reliable information can be had at this time concerning the damage done.

LEON M. ESTABROOK,
Chief of Bureau.

Chicago Notes.

The Leonard Seed Co. reports onion sets in extremely short supply and J. C. Leonard recalls a prediction that he made and which was published in the Chicago Produce Bulletin on Feb. 16th, in which he says that the price will go as high as in World's Fair year, when it reached \$7.25 per bushel. Quotations today are \$5.25 on red and yellow and \$5.50 on white sets and prices are still climbing so his prediction seems likely to be fulfilled. There has been very little shrinkage this winter, the stock being firm and never was there a better quality of marketable sets on March 1st than at this time. The scarcity of stock makes it imperative that those who do not wish to be disappointed should secure theirs without delay.

Beans are in fairly good demand. Owing to the scarcity of white beans for seed it is proving a hard year for the seedsmen to secure the usual acreage and contracts are very slow in being closed.

The situation is easier with peas, but here time is shorter and it will be a relief to all seedsmen when contracts are let. The killing frosts of January in the south have done much to affect conditions for the seedsmen. Seed corn is now worth twice the usual price at this season of the year.

Notes.

Norwich, N. Y.—Frank E. Skinner has opened a seed store on N. Broad St.

The House of Representatives has now before it the bill passed by the Senate last week which provides, "That wheat, barley, oats, and flaxseed intended to be used for seed may be imported in bond duty free under such regulations as the Secretary of the Treasury may prescribe. It is further provided that nothing therein contained shall be construed to impair the provisions of the act prohibiting the admission of adulterated grain and seeds unfit for seeding purposes."

SEEDS, BULBS, PLANTS

AND

Florists' Necessities

AMERICAN BULB CO.

172 N. Wabash Ave., Chicago, Ill.

BULB STOCK

DWARF DOUBLE PEARL TUBE-ROSES. Special prices on application.

CALADIUM ESCULENTUM BULBS.

LILIUM MULTIFLORUM, 7 to 9, 9 to 10 and 10 to 11. Attractive prices on application.

LILIUM FORMOSUM, 7 to 9, 9 to 10 and 10 to 11. (Black stem.)

Please tell us how many you can use and we shall make prices accordingly.

Selected strains of Ageratum, Alyssum, Aster, Begonia Erfordi, Calendula Meteor, Prince of Orange, Candytuft, Celosia, Centaurea, Cobaea scandens, Cosmos, Gypsophila, Lobelia, Petunia, and Verbena. Special prices on the above on application.

J. M. THORBURN & CO.

53 Barclay Street
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KELWAY & SON

SPECIALIZE IN

SEEDS

(personally selected strains)

WHOLESALE ONLY

Write for Special Prices, Spot or Forward

Only Address, **LANGPORT, Eng**

J. BOLGIANO & SON

Careful Seed Growers For
99 Years

Send for Our 1917 Wholesale Prices
To Florists and Market Gardeners
BALTIMORE, MD.

KEYSTONE SNAPDRAGON

Best Winter Flowering Pink Snapdragons on the market. Per pkt., \$1.00; 6 pkts. for \$5.00.

S. S. SKIDELSKY & CO.

PHILADELPHIA, PA.

My new Price List of
WINTER-ORCHID-FLOWERING SWEET
PEA SEED

Has been mailed. If you have not received a copy, send me postal. Part of new crop will be ready early in July.

ANT. C. ZVOLANEK

Sweet Pea Ranch Lompoc, Cal.

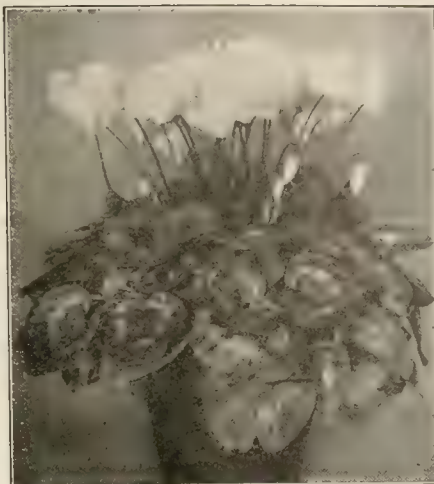
COLD STORAGE GIGANTEUMS

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Woolworth Bldg., New York

FARQUHAR'S GOLD MEDAL



CYCLAMEN

Awarded the Gold Medal of the Massachusetts Horticultural Society.

Strong plants in 2¼ inch pots, for delivery in April.

\$10.00 per 100

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LILIUM GIGANTEUM

NEW CROP NOW READY.

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7 to 9 in. (300 bulbs to case)...	\$5.50	\$50.00
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SEEDS, BULBS AND IMPLEMENTS
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Reselected Strains in Seeds.
Improved styles in Implements.
Catalogue upon application.

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LILIUM FORMOSUM

8/11, 225 to a case.....	\$80.00 per 1000
9/10, 200 to a case.....	\$5.00 per 1000
11/13, 100 to a case.....	15.00 per case
LILIUM FORMOSUM—Black Stem	
8/10, 200 to a case.....	\$80.00 per 1000
9/10, 180 to a case.....	90.00 per 1000
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Write for Complete Stock Circular.
SATISFACTION GUARANTEED.

ORDER NOW

New crop flower and vegetable seeds.
Begonia and Gladiolus Bulbs. 1917
Catalogue on application.

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47-54 North Market St., Boston, Mass.

W. E. MARSHALL & CO. SEEDS, PLANTS AND BULBS Horticultural Sundries

166 W. 23rd St., NEW YORK

GARDEN SEED

BEEF, CARROT, PARSNIP, RADISH and
GARDEN PEA SEED in variety; also other
items of the short crop of this past season,
as well as a full line of Garden Seeds, will
be quoted you upon application to

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82 Dev St., NEW YORK and ORANGE, CONN.

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611 FIFTH AVENUE
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Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

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Best Florists in the States as
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N. E. Cor. 44 St. & Madison Avenue, N. Y. City
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Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies Telegraph and Cable address, Dardsflor.

DAVID CLARKE'S SONS

Deliver orders from any part of the country to
New York City

Or OUT-GOING STEAMERS

Write or Telegraph

2139-2141 Broadway, - New York
Telephone 1552-1553 Columbus

Of Interest to Retail Florists

NEW FLOWER STORES.

Louisiana, Mo.—Dygard & Hogue.

Westwood, N. J.—Frank Lorraine.

Pittsburgh, Pa.—Dean Hill, 6137 Penn Ave.

New Orleans, La.—Peter Ackerman, 141 Bourbon St.

Chicago, Ill.—F. O. Franzen, branch store, 900 Belmont Ave.

Holyoke, Mass.—The Flower Shop, removed to 319 Appleton St.

San Francisco, Cal.—Sunkist Floral Co., removing to Post St., near Leavenworth.

NEWS NOTES.

Hershey, Pa.—A flower show will be held in the newly opened exhibition hall here in first week of April.

Worcester, Mass.—Harry L. Randall, florist, will move in the early spring from 13 Pleasant street to 22 Pearl street.

Elizabeth, N. J.—The store at 80 Broad street, occupied by J. W. Blakeley, florist, is to be enlarged and remodeled.

Weymouth, Mass.—Fire last week damaged the greenhouse of Duffin & Humes to a considerable extent. No insurance.

Los Angeles, Cal.—Tassano Bros. have purchased the nursery of E. Devalck, consisting of about ten acres of land and 7,500 feet of glass.

St. Louis.—F. H. Weber opened his new store on March 1.

Oscar C. Kuehn, who has been wirework manager for W. C. Smith for over eight years, is about to open an up-to-date wirework shop at the new St. Louis Cut Flower Co.'s place.

Cincinnati—R. G. Kootz Floral Co. had a singularly appropriate and artistic window decoration for Washington's Birthday. It attracted considerable attention. J. T. Conger, the Hartwell florist who was on the sick list for a time, is back at his desk.

New Britain, Conn.—A. C. Strom's flower shop at No. 26 Main street was entirely destroyed by fire on the evening of February 21 during the series of incendiary blazes that resulted in placing armed national guardsmen all over the city. Mr. Strom estimated his loss to be between \$3,000 and \$4,000, partly covered by insurance.

O. N. Stein, formerly manager of the landscape department of the George Wittbold Company, has resigned and opened a landscape office for himself.

From the Boston Post there comes to us the interesting information that humus is a "newly invented fertilizer," and that "Mayor Curley is responsible for the introduction of this new means of making Mother Nature get busy in time of need." Do tell!

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

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WASHINGTON, D. C.

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National Capital

At your service to deliver Flowers
or Designs on Order by Tele-
graph or otherwise. Prompt
Reliable Service.

GEORGE H. COOKE

Connecticut Ave. and L St.
WASHINGTON, D. C.

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

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G. E. M. STUMPP

761 Fifth Ave.

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Prompt Auto Delivery
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Vanderbilt Hotel
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Deliveries to Steamers and all Eastern Ports

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A. GRAHAM & SON
5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

Orders Filled Day or Night for
CLEVELAND
and State of Ohio

Complete Stock. Regular discount to Trade.
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THE SMITH & FETTERS CO.
735 Euclid Avenue
CLEVELAND, OHIO
Flowers of Every Kind in Season

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1532.
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FLORISTS
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440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
Stock and prompt deliveries in BUFFALO,
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WESTERN NEW YORK
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HIGH GRADE PLANTS
For Retail Stores a Specialty
ASK FOR LIST

THOMAS ROLAND, Nahant, Mass.
WORCESTER, MASS.
Randall's Flower Shop
HARRY L. RANDALL, Proprietor.
Mention Florists' Telegraph Association

Flowers by Telegraph

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

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Albany, N. Y.—H. G. Eyres, 106 State St.
Albany, N. Y.—The Rosery, 23 Steuben St.
Albany, N. Y.—William C. Gloeckner, 97 State St.
Boston—Thos. F. Galvin, 1 Park St.
Boston—Penn the Florist, 124 Tremont St.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Cleveland, O.—Adam Graham & Sons, 5523 Euclid Ave.
Cleveland, O.—Knoble Bros., 1836 W. 25th St.
Cleveland, O.—The Smith & Feters Co., 735 Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Ave.
Houston, Tex.—Kerr, The Florist.
Kansas City, Mo.—Samuel Murray, 1017 Grand Ave.
Los Angeles, Calif.—Howard & Smith, 853 So. Olive St.
New London, Conn.—Reuter's.
New York—J. H. Small & Sons, 505 Madison Ave., at 52d St.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 611 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—A. T. Bunyard, 413 Madison Ave., at 48th St.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Max Schling, 22 W. 59th St.
New York—G. E. M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Passaic, N. J.—Edward Seery.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.
St. Paul, Minn.—Holm & Olson Inc.
Tarrytown-on-Hudson, N. Y.—F. R. Pleron Co.
Toronto, Can.—J. H. Dunlop, 8-10 West Adelaide St.
Washington, D. C.—Gude Bros, 1214 F St.
Washington, D. C.—George H. Cooke, Connecticut Ave. and I. St.
Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop, 3 Pleasant St.

Send Telegraph, Telephone or Mail orders for florist service in this vicinity to

Howard & Smith
853 SO. OLIVE ST.
Los Angeles, Calif.

Every Order sure to receive prompt and careful attention.

REUTER'S Members Florists' Telegraph Delivery

STORES IN

New London and Norwich, Conn. and Westerly, R. I.

We cover the territory between
New Haven and Providence
ST. LOUIS, MO.

FRED C. WEBER
4326-28 Olive St.

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Delivered on mail or telegram order for any occasion, in any part of the Dominion.

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Flowers or Design Work

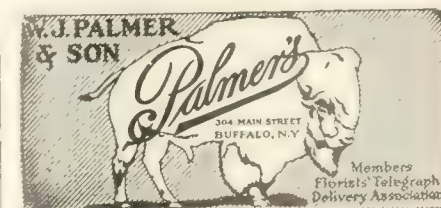
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"THE HOME OF FLOWERS"
The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

The Park Floral Co.
J. A. VALENTINE, Pres.

Members Florists' Telegraph Delivery.
DENVER, COLORADO



KERR ORDERS FOR TEXAS
HOUSTON, TEXAS
Member F. T. D. Association

NEWS ITEMS FROM EVERYWHERE

CHICAGO

N. J. Wietor is recovering from a severe attack of the grippe.

A post card received at Schiller's Gift Shop stated that Reinhold Schiller and bride were at Norfolk, Va., last week.

Mrs. Samuel J. Pearse is visiting her brother in New Orleans, where he is foreman for the Metairie Ridge Nursery Co. At the Pearse greenhouses tulips and narcissi have been cut steadily since Dec. 15th and the supply will continue till Easter, when 16,000 lilies will be ready.

One by one the most faithful lovers of the American Beauty rose are losing heart and putting a section or so each year into some other stock. And they say "The worst of it is, there is no rose that will take its place and the people would buy good ones if we could grow them."

Kroeschell Bros. have just installed the second 250-horse-power boiler in the 1917 addition to the L. A. Budlong range in Evanston, Ill. These greenhouses are to be used exclusively for the newer varieties of roses. Mr. Lautenschlager says the indications are for a busy season in the boiler business.

J. Mangel, the Palmer House florist, has his conservatory now where it answers the double purpose of utility and beauty. A large fountain with constantly changing colored lights occupies the center of the room. Around the sides are tables for making up and above are overhanging shelves of rock, from which vines and ferns are seen in profusion.

One of the most artistic windows ever executed by a florist in Chicago is on the Wabash Ave. side of the Geo. Wienhoeber store. It presents a bit of Dutch landscape in compliment to the country that produces the bulbs. Mr. Wienhoeber has avoided the common mistake of using too much color. In the foreground is a fern bordered river with bridge, in the background a castle with steps to the river, and a windmill with arms in motion. Just enough flowers are used to relieve the brown and green tones.

Plans are being drawn for the new factory warehouse of the J. C. Moninger Co. to replace the one recently destroyed by fire. The insurance adjustment was very satisfactory. So many letters of inquiry are being received that Mr. Kurowski thinks a good season is just ahead. A contract has been made by this firm for a large addition to the Bohemian National Cemetery greenhouses. Another order just completed for two houses, 28 x 250 feet, for James L. Denmead, Marshalltown, Iowa. A new catalogue for private conservatories will be issued very soon.

With the coming of March the city gardens' project, which has been tried here with more or less success for several years, is again before the

people. The tracts of idle land have been systematically apportioned to those who will cultivate them, and this year the requests for plots of ground will be more numerous. Out of the 200 square miles within the city limits there are about 60 square miles or 40,000 acres vacant. A department called a Garden Bureau, has been inaugurated, by a local paper, which will instruct those who are without gardens how they may secure one and give information on seeds, etc.

The Big Shows for 1917

ST. LOUIS—Spring Flower Show, March 15-18.

NEW YORK—International Flower Show, March 15-22.

PHILADELPHIA—National Rose Festival, March 20-23.

BOSTON—Spring Flower Show, March 21-25.

PHILADELPHIA.

Professor Sanders of the Department of Agriculture, Harrisburg, Pa., gave an address before the Pennsylvania Horticultural Society on February 19th.

J. Otto Thilow of Dreer's returned from his vacation trip to Honolulu last Monday, looking brown and hearty. He is modest about it, but we feel sure he is loaded to the limit with experiences and pictures—enough to keep the country sitting up nights to listen to him for the next five years. Fine; get after him.

PITTSBURGH.

John Arbuckle has assumed charge of the accounting department of G. P. Weaklin & Co.

The Zieger Company of the East End is making extensive repairs in the front of the palm house.

Accompanied by his family, O. J. Parker of Scobie & Parker, will leave shortly for Los Angeles, Cal.

Anthony Aloysius Leach, superintendent of the Henry J. Heinz grounds and greenhouse, is visiting New York and other eastern points.

Murray McGrew and his family have the sympathy of a large circle of friends and acquaintances in the death of Mrs. McGrew on Thursday, Feb. 15.

Miss Eliza McKinley, head saleswoman for Randolph & McClements, has been ill for several days with a severe attack of the prevailing la grippe.

Under the auspices of the McCallum Company, an exhibition of Oriental wares is being held this week at the Colonial-Anex Hotel by the Tajimi Company of New York.

S. E. Pearsall is in charge of a flourishing new flower shop in Brownsville, Pa., the only one in the town. McKees Rocks also has a similar new enterprise called the Victor Flower Shop.

G. P. Weaklin & Co. have just had the most distinctive early spring wedding of the season (See illustration). Quantities of wild southern smilax, specimen cibotiums, bamboos and crotons were used. At each end was a lattice designed gateway and a quaint wicker basket seven feet high filled with pink snapdragon, while silver-gray shafts of the same flowers surmounted the altar. At each end



A PITTSBURGH CHURCH WEDDING DECORATION.

By G. P. Weaklin & Co.

You Will Get the Easter Orders

IF YOU HAVE THE GOODS THE CUSTOMERS WANT

If Not—Your Competitor Will Get the Business

THE GOODS WE OFFER YOU WILL PLEASE THEM FOR THEY ARE THE BEST IN THE WORLD

We have splendid novelties and all the standard goods in endless variety, Home Manufacture and Imported. Stock up now and have the goods to show customers. Send for catalogue and prices and see how much you can do with a little money when you go straight to headquarters—*The Florists' Supply House of America.*

H. BAYERSDORFER & CO.

Manufacturers and
Importers

1129 Arch Street, PHILADELPHIA, PA.

Write for
Catalogue

and along the main aisles were festooned old-fashioned square street lamps—ten in all. On the bridal table was a low mound of pink Killarney roses and Marie Legraye lilacs from the center of which extended a tall crystal shaft of the same flowers showered with Sweetheart roses and narrow ribbons. Sweetheart roses and lilies of the valley also showered the bridal bouquet of roses and orchids. Ophelia roses and white roses were carried by the bridesmaids.

WASHINGTON, D. C.

There is a vacancy in the position of landscape architect in the office of Public Buildings and Grounds which the Civil Service Commission has been asked to fill. The vacancy follows the resignation of Charles H. Diggs.

Gude Bros. Company has been awarded the contract for the decorating of the President's stand in front of the Capitol, the Court of Honor, and the Court of States, with greens. This will involve the use of about 8,000 yards of laurel roping and large quantities of cedars, evergreens, etc.

The Department of Agriculture is to conduct extensive co-operative experiments with bulb growers in Washington, Oregon, California, Arizona, New Mexico, Colorado, Texas, Arkansas and Missouri. For this purpose David Griffith, agriculturist in the seed distribution division of the Bureau of Plant Industry, is starting on a three months' trip through these states.

ROCHESTER, N. Y.

H. B. Stringer, with George B. Hart, wholesale florist, has been home ill with the grippe. John Vollmer of J. B. Keller Sons has been ill for a week.

J. B. Keller Sons had a fine window for Washington's Birthday. It contained a picture of Washington, green galax wreath with red and white carnations and violets.

There has been a new flower store opened up under the name of Rosery Flower Shop. Paul Campas is the proprietor. He conducted a flower stand for many years on Main street.

BOSTON.

N. F. McCarthy, who has been recuperating in Bermuda, is expected home about March 12.

The first forced blooms of the Regal Lily (*myriophyllum*) for the season are offered for sale by Patrick Welch.

Gustave Thommen, formerly of Tewksbury has taken possession of the nine acre farm and greenhouses of E. J. Mundy at Reading, Mass.

Reinhold Schiller and his bride passed through Boston this week on their way from Washington to Montreal and thence home to Chicago. Declared they were having the time of their lives.

The rose "Montrose" being sent in by the Budlong Company is highly prized by Welch's who say they find a good sale for it. David Welch is back in the store again after several weeks' severe illness with grippe.

J. J. Cassidy, Thos. F. Galvin, Henry Penn, P. J. Donahue and P. Welch have been appointed a special committee of florists by the Boston National Elks' Convention Association for the Elks' Convention which is to be held in Boston next July.

One thousand home vegetable gardens in Melrose is the object of a campaign begun by Mayor Charles H. Adams of that city, as a means to lessen the cost of living. Vacant land owned by the city and tracts offered by citizens for public use will provide gardens for 1,000 families, it is believed.

Under the auspices of Simmons College and the Women's Educational and Industrial Union a series of lectures on horticulture are to be given at Perkins Hall, 264 Boylston street, in March and April. Two lectures will be given on spring bulbs and their culture with the object of acquainting owners of small yards with the best methods of cultivating the early spring bulbs. Two lectures will be given on shrubs and flowering plants. These four will be given by Miss Patten. They will be followed by others to be given by Dr. Holt on insects and Prof. Osmun on fungus.

PERSONAL.

Jas. Johnstone, formerly of Mamaroneck, is now superintendent for Mrs. De Lancy Kane at New Rochelle, N. Y.

William C. Hay, of Bernardsville, N. J., has accepted the position of superintendent for Mrs. C. Masury, Center Moriches, L. I., N. Y.

G. Anderson succeeds P. Back as superintendent for the E. L. Ryerson estate at Lake Forest, Ill. Mr. Back has gone into the seed business at Racine, Wis., under the title, "Standard Seed Company."

Edward J. Norman, Jr., of Lenox, Mass., formerly foreman to Mrs. Alfred G. Vanderbilt and later with A. N. Pierson, Inc., Cromwell, Ct., has taken charge of the greenhouses and grounds of the C. G. Cheney estate, Essex, Conn.

Ethel Louise Adam, daughter of David Adam, the well-known and popular seed expert connected with Vaughan's Seeds, New York, was married to Horace Adams, Jr., at Plainfield, N. J., on Feb. 20th. It will be noticed that the nomenclature committee has practically nothing to do in their case.

Frank J. Prouty, florist, Spencer, Mass., and Miss Gladys M. Wilson were married Wednesday afternoon, February 21. The ceremony took place at the home of Rev. Mathew Francis, pastor of the Baptist church. It had been planned to have the ceremony at the home of the bride's mother, Mrs. Lucy Wilson, but Mrs. Wilson is confined to her bed with pneumonia.

Arthur C. Ruzicka, well-known grower and writer on ROSES for HORTICULTURE, has engaged with the Brant & Noe Floral Co. at Forest Glens, Ill., to take full charge of the whole place. He leaves Rowayton, Conn., for Chicago on March 3 and will assume charge at once. The place is devoted entirely to carnations now, but it is to be changed over to roses as rapidly as this can be done. HORTICULTURE's friends will be pleased to know that Mr. Ruzicka will continue his valuable weekly contributions exclusively in HORTICULTURE as in the past.

GARDENIAS

The Best \$25.00 per 100
Fancy \$20.00 per 100
Firsts \$15.00 per 100

At our prices every Retail Florist can handle them. If you buy 25 at one time we bill them at the 100 rate.

THE LEO NIESSEN CO.

Wholesale Florists

1201-05 Race Street,

PHILADELPHIA, PA.

EDWARD REID WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.
CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

W. A. LEONARD J. M. DEUTSCHER
Bell, Locust 1497 Keystone, Race 1656

Philadelphia Wholesale Florist Exchange

1615 Ranstead St., PHILADELPHIA, Pa.

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$1.85. 50,000...\$8.00. Sample free.
For sale by dealers.

E.G. HILL CO.

Wholesale Florists
RICHMOND, IND.

Please mention Horticulture when writing.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Special y

264 RANDOLPH ST., DETROIT, MICH.

The House for Quality and Service

ZECH & MANN

We are Wholesale Florists Doing
a Strictly Wholesale Business

30 East Randolph Street, CHICAGO

CUT FLOWER BOXES

EDWARDS FOLDING BOX CO

MANUFACTURERS

PHILADELPHIA, PA.

DAVID WELCH

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WELCH'S

Wholesale & Commission Florists

FLORISTS' SUPPLIES

280-282 Devonshire Street,

BOSTON, MASS.

Tel. Fort Hill 1964-1965

POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut Flower Market

Daily consignments from leading growers Full line of Florists' Supplies Write for quotations before ordering elsewhere

262B DEVONSHIRE ST., BOSTON, MASS.
Telephone, Main 6267-6268

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON Mar. 1		ST. LOUIS Feb. 26		PHILA. Feb. 26	
Roses						
Am. Beauty, Special	20.00	to 35.00	30.00	to 40.00	65.00	to 80.00
" " Fancy and Extra	10.00	to 15.00	20.00	to 30.00	30.00	to 50.00
" " No. 1 and culls	4.00	to 8.00	4.00	to 6.00	8.00	to 25.00
Russell, Euler, Mock	2.00	to 10.00	5.00	to 15.00	6.00	to 25.00
Hadley	4.00	to 12.00	.....	.....	6.00	to 20.00
Arenberg, Hoosier Beauty	4.00	to 10.00	5.00	to 10.00	4.00	to 12.00
Ward	2.00	to 8.00	4.00	to 10.00	4.00	to 10.00
Killarney, Radiance, Taft	2.00	to 9.00	3.00	to 8.00	4.00	to 12.00
Ophelia, Sunburst, Hillingdon	4.00	to 10.00	4.00	to 10.00	4.00	to 12.00
Key	6.00	to 12.00	.....	.....	6.00	to 18.00
Carnations						
Cattleyas	1.00	to 3.00	2.00	to 3.00	1.50	to 4.00
Dendrobium formosum	35.00	to 50.00	.....	to 50.00	35.00	to 50.00
Lilies, Longiflorum	.....	to 50.00	.....	.....	60.00	to 75.00
Lilies, Speciosum	8.00	to 12.00	12.50	to 15.00	10.00	to 12.00
Callas	6.00	to 8.00	.....	.....	.....	.....
Lily of the Valley	6.00	to 10.00	.....	to 15.00	10.00	to 12.00
Snopdragon	2.00	to 4.00	5.00	to 6.00	2.00	to 6.00
Daffodils	1.00	to 3.00	.....	.....	4.00	to 15.00
Narcissi, Paper White	1.00	to 2.00	2.00	to 4.00	2.00	to 3.00
Roman Hyacinths	2.00	to 3.00	2.00	to 3.00	2.00	to 3.00
Freesia	1.00	to 2.00	.....	.....	2.00	to 3.00
Tulips	3.00	to 4.00	2.00	to 4.00	1.00	to 4.00
Calendulas	2.00	to 5.00	2.00	to 4.00	2.00	to 4.00
Sweet Peas	3.00	to 4.00	.....	.....	2.00	to 4.00
Violets	.50	to 1.00	.50	to 1.00	.40	to 2.00
Marguerites	.35	to .75	.20	to .40	.20	to .75
Gardenias	1.00	to 3.00	.....	.....	.50	to 2.00
Adiantum	2.00	to 12.00	.....	.....	5.00	to 25.00
Smilax	1.00	to 2.50	.....	to 1.00	.....	to 1.00
Asparagus Plumosus, & Spreng. (100 Bchs.)	12.00	to 20.00	15.00	to 20.00	15.00	to 20.00
	25.00	to 35.00	25.00	to 35.00	25.00	to 50.00

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ROSES, VALLEY and
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A Specialty

WHOLESALE
GROWER of

CUT FLOWERS

In writing to Advertisers kindly mention Horticulture

Flower Market Reports

BOSTON Slump; more slump; and then some. That is the state of this market at present and so far as one can see, likely to be for some time to come. If only the daffodils and other bulb stock would slack up there might be some little chance for other things. Even callas, erstwhile in the plebeian class, are on all sides in superabundance. Sweet peas and carnations crowd the tables in the market, heavy contributions to the vast expanse of color which greets the visitor, no matter what hour of the day he selects. There must have been an unusual quantity of Dutch hyacinth bulbs negotiated into this neighborhood last fall for these have never before figured very prominently in the cut flower trade here, but at present they are on all sides. American Beauty roses of the "special" grade are practically unobtainable but anything else that one might call for can be had ad libitum and the regular price quotations would figure merely as "a scrap of paper."

Conditions have changed **BUFFALO** since the beginning of the Lenten season. The supply on everything is overabundant except roses, which have been in normal supply. Daffodils, tulips and all bulbous stock are overplentiful and there are considerable peas, carnations, violets, lilacs, lily of the valley and other stock. Trade has completely fallen off and about the only thing doing is a little design work. Better conditions are looked for.

The first week of Lent **CHICAGO** has passed and what part it played in market conditions of the week is a question upon which there is some difference of opinion. Whatever the cause, there has come a change and most of the retail florists are finding it a rather quiet ending to February. The wholesale houses are receiving quantities of stock, more than can be used to advantage and buyers are carrying away the flowers for considerably less than quotations. Bulbous stock, for which a good price has been maintained for many weeks, is now being moved for much less or it remains unsold. Tulips are especially slow sale. There are more roses being cut now than at any other time since Christmas. Mrs. Russell is seen in all lengths of stem and with large heads of good color. American Beauties are scarce and by no means all perfect. Carnations are so abundant that no price can be maintained steadily, but concessions have to be constantly made. The situation is further aggravated by some growers who hold their blooms too long before cutting them. Violets are selling slowly since the rush on St. Valentine's Day and good homegrown singles are offered as low as 40c. per 100. The scarcity of callas is over and in its place is an overabundance, for on every counter may be seen great jars of them. Freesia is very plentiful. Snapdragons are equal to demand, while mignonette, calendulas, sweet peas, pansies and other flowers are keeping the market well filled.



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WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI Feb. 26		CHICAGO Feb. 26		BUFFALO Feb. 26		PITTSBURG Feb. 26	
Roses								
Am. Beauty, Special.....	45.00	to 50.00	40.00	to 50.00	.....	to 60.00	60.00	to 75.00
" " Fancy and Extra.....	25.00	to 35.00	30.00	to 40.00	35.00	to 40.00	.....	to 40.00
" " No. 1 and culls.....	8.00	to 20.00	6.00	to 20.00	8.00	to 15.00	4.00	to 15.00
Russell, Euler, Mock.....	.....	to	6.00	to 25.00	6.00	to 8.00	8.00	to 20.00
Hadley.....	.....	to .....	.....	to	6.00	to 10.00	.....	to
Arenberg, Hoosier Beauty.....	6.00	to 10.00	.....	to	6.00	to 10.00	.....	to
Ward.....	5.00	to 8.00	4.00	to 10.00	4.00	to 6.00	6.00	to 10.00
Killarney, Radiance, Taft.....	3.00	to 8.00	4.00	to 10.00	8.00	to 12.00	4.00	to 12.00
Ophelia, Sunburst, Hillingdon.....	6.00	to 10.00	6.00	to 12.00	5.00	to 10.00	8.00	to 15.00
Key.....	.....	to .....	.....	to .....	.....	to .....	.....	to
Carnations	2.00	to 3.00	1.00	to 4.00	2.00	to 3.00	2.00	to 4.00
Cattleyas	50.00	to 60.00	40.00	to 60.00	40.00	to 50.00	.....	to 50.00
Dendrobium formosum.....	.....	to .....	.....	to .....	.....	to .....	.....	to 40.00
Lilies, Longiflorum.....	.....	to 12.50	10.00	to 12.50	10.00	to 12.00	12.00	to 15.00
Lilies, Speciosum	6.00	to 10.00	.....	to	4.00	to 6.00	.....	to
Callas	8.00	to 10.00	12.00	to 15.00	8.00	to 12.00	.....	to
Lily of the Valley.....	.....	to 7.00	5.00	to 6.00	5.00	to 6.00	.....	to 6.00
Snapdragon	4.00	to 6.00	5.00	to 10.00	5.00	to 8.00	6.00	to 10.00
Daffodils	3.00	to 4.00	2.00	to 3.00	2.50	to 3.00	2.00	to 4.00
Narcissi, Paper White.....	.....	to 3.00	2.00	to 3.00	2.00	to 3.00	.....	to
Roman Hyacinths	3.00	to 4.00	2.00	to 3.00	2.00	to 3.00	.....	to
Freesia	2.00	to 3.00	2.00	to 3.00	2.00	to 3.00	3.00	to 4.00
Tulips	3.00	to 4.00	1.00	to 3.00	2.50	to 3.00	1.00	to 4.00
Calendulas	3.00	to 4.00	2.00	to 3.00	3.00	to 4.00	.....	to 4.00
Sweet Peas.....	.75	to 1.50	.50	to 1.50	.75	to 2.00	.25	to 2.00
Violets.....	.75	to 1.00	.40	to 1.00	.30	to .50	.50	to .75
Marguerites.....	.75	to 1.00	.75	to 1.00	1.00	to 1.50	2.00	to 3.00
Gardenias.....	.....	to	25.00	to 30.00	.....	to .....	.....	to
Adiantum.....	.....	to 1.00	.....	to 1.00	1.00	to 1.25	.....	to 1.25
Smilax.....	.....	to 15.00	12.00	to 18.00	.....	to 15.00	.....	to 15.00
Asparagus Plu. & Spren. (100 Bhs.)	25.00	to 50.00	25.00	to 50.00	25.00	to 50.00	40.00	to 60.00

This market is again **CINCINNATI** well supplied with stock. Prices in general are lower than they were. Shipping business, particularly in supplies and greens, is excellent. Roses are in a good supply. Carnations, while they are not in a very heavy supply are sufficient. Lilies are plentiful, while the supply of callas and rubrum lilies are ample. Daffodils, hyacinths and tulips are excellent and in a good supply. Sweet peas, if anything, are too plentiful. Single violets are very plentiful. Lily of the valley and orchids may be had in fair quantities. The supply of Asparagus plumosus and Sprengerii is very short.

The market has gone **NEW YORK** bad, very bad. Flowers of all kinds are heavily overstocked in the wholesale markets and the outlook is anything but cheerful. There seems no outlook for the accumulations of bulbous ma-

terial or, indeed, most of the other stock, there being nothing in the entire list that is sold up to the limit. American Beauty roses may be termed an exception but if they were really obtainable the quotations we list would go to pieces.

The past week's **PHILADELPHIA** business has continued brisk with the exception of Wednesday which being the first day of Lent was rather dull. There was a good clean-up Friday and Saturday and even the draggy items went at fairly good prices. Roses were more plentiful with the exception of Beauties and Russells, these two being still very scarce. While roses seemed to be in less demand and these piled up a little but the pink varieties held their own all right. Carnations came in very freely and prices ruled rather easier. Orchids remain about as last reported—good

(Continued on page 283)

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NEW YORK QUOTATIONS PER 100. To Dealers Only**ROSES AND CARNATIONS**

	Last Half of Week ending Feb. 24 1917		First Half of Week beginning Feb. 26 1917	
American Beauty, Special	50.00	to 75.00	50.00	to 75.00
" " Fancy and Extra	35.00	to 40.00	30.00	to 40.00
" " No. 1 and culls.	8.00	to 15.00	8.00	to 15.00
Russell, Euler, Mock	6.00	to 15.00	5.00	to 15.00
Hadley	15.00	to 75.00	15.00	to 75.00
Arenberg, Hoosier Beauty	4.00	to 12.00	3.00	to 10.00
Ward	3.00	to 12.00	3.00	to 10.00
Killarney, Radiance, Taft	3.00	to 10.00	2.00	to 5.00
Ophelia, Sunburst, Hillingdon	6.00	to 12.00	5.00	to 10.00
Key	5.00	to 12.00	6.00	to 12.00
Carnations	2.00	to 3.00	1.50	to 3.00

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MAURICE L. GLASS, Treasurer

Flower Market Reports

(Continued from page 283)

stock and enough for all demands. Gardenia supply seems to have eased up a little. Sweet peas are coming in very strong, but notwithstanding the immense quantities they seem to all find a market, the quality being top-notch. Lily of the valley and violets are both rather sluggish. Snapdragon continue plentiful and fine and meets with ready sale. Callas and lilies have eased up in price on account of larger supplies. Daffodils are very plentiful and prices low. Very few paper whites or Roman hyacinths are to be seen. There are too many tulips. Greens are scarce.

Bulb flowers of all varieties are practically without value, so plentiful have they become. It seems the irony of fate that after weeks of scarcity, this condition should come to pass just as the Lenten season's dearth of decorating is ushered in. Ideal late winter weather of late with now and then a day of slow steady rainfall has produced superlatively fine stock of all kinds, but for which there is little demand. Freesia, violets and mignonette are especially slow in sales for several days past.

Owing to the warm weather stock has been more plentiful. Daffodils, tulips, paper whites and carnations have been moving very slowly. Roses have been coming in fine shape. There have been some very fine gardenias, cattleyas, bachelor buttons, daisies, freesia, sweet peas, snapdragons, calendulas and forget-me-not.

After a lively week previous to the incoming of Lent this market has taken quite a tumble and with the supply of roses, carnations and bulb stock increasing, prices have dropped considerably. Violets are now going at a very low figure.

Business has been very satisfactory. Roses are still scarce but the supply of carnations has increased and the market is flooded with bulbous stock which is to be had at moderate prices. Sweet peas for the first time this season went begging despite the fact that they are of fine quality. Their sale was affected by the influx of other flowers. Lilies are more plentiful. American Beauty roses and orchids are scarce and high prices prevail. Large quantities of single and double violets are offered. These are largely being sold by street vendors.

Editor HORTICULTURE:

Enclosed you will find my check for one dollar, to renew my subscription to your valuable paper, which I enjoy very much. I believe your paper, like wine, improves with age. Long may it continue to do so, and may you be spared for years to come to guide the destinies of HORTICULTURE. Yours very truly,
Long Island. J. D.

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MISCELLANEOUS	Last Half of Week ending Feb. 24 1917		First Half of Week beginning Feb. 26 1917	
Cattleyas.....	20.00	to 35.00	20.00	to 35.00
Dendrobium formosum.....	.....	to 60.00	.....	to 60.00
Lilies, Longiflorum.....	8.00	to 10.00	8.00	to 10.00
Lilies, Speciosum.....	4.00	to 8.00	4.00	to 8.00
Callas.....	6.00	to 10.00	6.00	to 10.00
Lily of the Valley.....	3.00	to 5.00	3.00	to 6.00
Snapdragon.....	3.00	to 5.00	3.00	to 5.00
Daffodils.....	1.50	to 2.00	1.00	to 1.50
Narcissi, Paper White.....	1.00	to 2.00	1.00	to 2.00
Roman Hyacinths.....	1.00	to 2.00	1.00	to 2.00
Freesia.....	1.00	to 3.00	1.00	to 3.00
Tulips.....	1.50	to 3.00	1.00	to 3.00
Calendulas.....	2.00	to 3.00	1.00	to 2.00
Sweet Peas.....	.10	to 1.00	.10	to 1.00
Violets.....	.25	to .50	.25	to .50
Marguerites.....	1.00	to 2.00	1.00	to 2.00
Gardenias.....	3.00	to 40.00	3.00	to 35.00
Adiantum.....	.50	to 1.00	.50	to 1.00
Smilax.....	10.00	to 15.00	10.00	to 15.00
Asparagus Plumosus, & Spreng (100 bunches).....	15.00	to 25.00	15.00	to 25.00

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Robert Craig Co., Philadelphia, Pa.
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High Grade Plants for Retail Florists.
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H. H. Barrows & Son, Whitman, Mass.
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F. R. Pierson, Tarrytown, N. Y.
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Scottii Ferns, 2½ in. pots.....\$5.00 per 100
" " 3 in. pots..... 8.00 "

Boston " 2½ in. pots..... 5.00 "
ANTON SCHULTHEIS, College Point, N. Y.

FERTILIZERS

Pulverized Manure Co., Chicago, Ill.
Wizard Brand Cattle Manure.
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New Catalogue.
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J. M. Thorburn & Co., New York City.
Dwarf Gladiolus.
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WORDS OF PRAISE FOR THE GLADIOLUS MRS. E. W. FRYER.

Epping, N. S. W., Australia.
Mr. W. E. Fryer, Mantorville, Minn., U. S. A.
Dear Sir: Just a note as I promised to report on the gladiolus Mrs. W. E. Fryer. This now has bloomed with me and it is without doubt one of the finest I have seen. As it was the first parcel to arrive from America this season, it got the pride of place in planting—right near the front gate, and people are attracted by the bright patch it makes in the garden.

Yours faithfully, A. WHITE.
Lower Hutt, New Zealand.

Mr. Willis E. Fryer, Mantorville, Minn., U. S. A.
Dear Sir: Referring to yours of March 16th last, we have this to state, that we have flowered your gladiolus novelty, Mrs. W. E. Fryer, and are very much pleased with its pure, bright color and would ask you to be so good as to send us fifty as early in the fall as possible. We are yours faithfully,
ORR BROTHERS,
Los Angeles, Cal.

Willis E. Fryer, Mantorville, Minn.
Dear Mr. Fryer: The bulbs of the gladiolus Mrs. W. E. Fryer, about which you ask me, were a surprise to me when in bloom. I think it one of the finest varieties yet produced in the gladiolus line. Yours very truly,
W. J. COLCLEUGH.
No. 1, \$7.00 per 100; No. 2, \$6.00; No. 3, \$5.00; No. 4, \$4.00; No. 5, \$3.00. Phlox, peonies, iris and other hardy plants.

WILLIS E. FRYER, Mantorville, Minn.

GLASS

Sharp, Partridge & Co., Chicago.
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Parshelsky Bros., Inc., Brooklyn, N. Y.
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The Dwelle-Kaiser Co., Buffalo, N. Y.
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Greenhouse glass, lowest prices. JOHN-STON GLASS CO., Hartford City, Ind.

GLASS—6 x 8, 8 x 10, 10 x 12, 10 x 14, \$2.00 per box. Other sizes at factory prices. C. N. ROBINSON & BRO., Dept. 29, Baltimore, Md.

GLASS CLOTH

Turner Bros., Bladen, Neb.
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GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
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GOLD FISH

Gold fish, aquarium plants, snails, castles, globes, aquarium, fish goods, nets, etc., wholesale. FRANKLIN BARRETT, Breeder, 4815 D St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

GREENHOUSE BUILDING MATERIAL

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Spraying Results Guaranteed.

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Holland Nursery Stock.
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Cottage Gardens Nurseries, Inc.,
Eureka, Calif.

Specialists in Specimen Stock for Landscape Work.
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In writing to Advertisers kindly mention Horticulture

NUT GROWING

The Nut-Grower, Waycross, Ga.
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ORCHID PLANTS

Beechwood Heights Nurseries,
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Importers and Growers of Orchids.
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Lager & Hurrell, Summit, N. J.

HASSALL & CO., Orchid Growers and
Raisers, Southgate, London, England. Im-
mense stock of Cattleyas.

PAINTS AND PUTTY

The Dwell-Kaiser Co., Buffalo, N. Y.
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PANSY AND VERBENA BASKETS

G. P. Read, Inc., New York City.

PETUNIAS

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
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PEONIES

Peonies. The world's greatest collection.
1200 sorts. Send for list. C. BETSCHER,
Canal Dover, O.

Complete manuals on the Peony, Iris and
Phlox. 25 cents each in stamps. C. S.
HARRISON, York, Nebraska.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.
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PHLOX

CLEARING OUT SALE OF HARDY
PHLOX, IN VARIETIES
Including 2,000 F. G. von Lamsburg, 3,000
Miss Lingard. Write for information and
prices. OLD TOWN NURSERIES, South
Natick, Mass.

PIPE AND FITTINGS.

Kroeschell Bros. Co., Chicago.
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PRIVET

Amoor River Privet, 2 to 3 ft., \$2.00 per
100; \$15.00 per 1000. REYNOLDS NUR-
SERY COMPANY, Winston-Salem, N. C.

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Robert Scott & Sons, Sharon Hill, Pa.
Agent for Alex. Dickson & Sons.
New Red Rose, Donald MacDonald.

Guttman & Raynor, Inc., New York City.
Rose Prima Donna (Mme. Paul Euler).

ROSES, CANNAS AND SHRUBS.
THE CONARD & JONES COMPANY,
WEST GROVE, PA.

SASH

STANDARD HOTBED SASH, with cross
bar, 85c. each; lots of 25 and over, 80c.
each. Satisfaction guaranteed or money
refunded. Glass 6 x 8, 8 x 10, 10 x 12 or
10 x 14, \$2.00 per box of 50 sq. ft.
C. N. ROBINSON & BRO., Dept. 29, Balti-
more, Md.

SCALECIDÉ

B. G. Pratt Co., New York City.

SEASONABLE PLANT STOCK

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SEEDS

Carter's Tested Seeds.
Seeds with a Pedigree.
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Represented by
Winter, Son & Co., New York City.
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Garden Seeds.

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SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. LAGER
& HURRELL, Summit, N. J.

STRAWBERRY PLANTS

Strawberry Plants, \$2.50 per 1000. Cata-
logue free. BASIL PERRY, Georgetown,
Delaware.

SWEET PEA SEED

Ant. C. Zvolanek, Lompoc, Calif.
Gold Medal of Honor Winter Orchid Sweet
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The Davey Tree Expert Co., 1302 Elm St.,
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R. Vincent, Jr. & Sons Co.
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COMET TOMATOES—Fine plants grown
from Roney's special forcing strain in
sterilized soil. Strong 2½ inch plants, \$2.00
per 100; \$22.50 per 1000. Cash please.
J. J. CLAYTON & SON, West Grove, Pa.

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New Offers In This Issue**ADVANCE LOCK OPERATING DE-
VICE.**

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LATE WHITE."**

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**SURPLUS STOCK OF EVERGREENS,
SHRUBS AND PERENNIALS.**

New England Nurseries Co., Bedford, Mass.
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THE NUT-GROWER

The unique monthly publica-
tion which furnishes reliable
and interesting up-to-date in-
formation regarding the value
of pecans and other edible nuts
and how to grow them for profit.

Subscription, \$1.00 per year

Sample Copy Free

THE NUT-GROWER

No. 2 Francis St.

WAYCROSS, GA.

WANTS, FOR SALE, ETC.

Advertisements in this column
one cent a word. Initials count
as words. Cash with order. All
correspondence addressed "Care
HORTICULTURE" should be sent
to 147 Summer St., Boston.

HELP WANTED**SEEDSMAN AND STORE
SALESMAN**

Young man, experienced in flower
and vegetable seeds; good chance
for advancement, if not afraid of
hard work and long hours.
Apply by letter only.

MACNIFF HORTICULTURAL CO.

52-56 Vesey St., New York City

WANTED—Good all-round men for green-
house work and to fill orders. Must be
sober and industrious. Permanent positions
and good wages to right men. State age,
experience and wages expected in first
letter PETER HENDERSON & CO., 390
Arlington Ave., Jersey City, N. J.

GREENHOUSE MAN wanted at Lang-
water Farms. Must be good grower of
carnations, chrysanthemums and pot stock.
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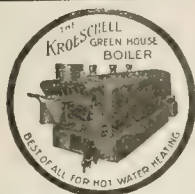
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Pot Makers for a
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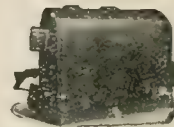
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All kinds of Greenhouse Fittings.

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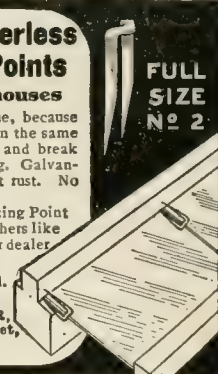
Be sure to get our estimates.

The DWELLE-KAISER Co.

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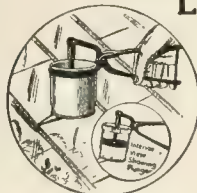
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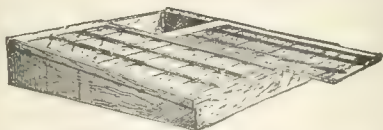
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warmy back. For all forcing purposes.
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Glazed Hotbed Sash from \$1.65 up.

Double Light Sash up to \$4.00.

We carry a large stock of all sizes.

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On account of their sturdy special construction which permits of great strength without the need of heavy shadow casting supports, these houses are so warm and sunny that they are filled with a riot of bloom and fruit when Jack Frost has stripped the garden of its beauty.

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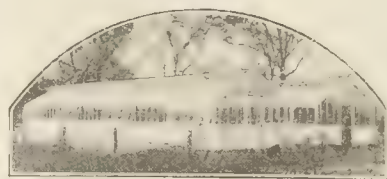


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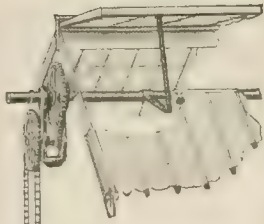
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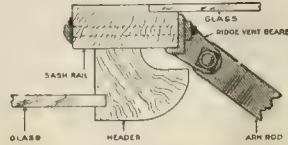
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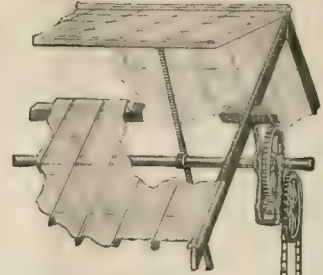
Box 9, National Union Building
Washington, D. C.



This is our new Double Bolted Rod Bearer which is used on long runs of sash.



This shows how the new Bearer is bolted to the bottom of the sash. Once there, it's there to stay for life.



The Ventilating Gear That Works as Easy as an Even-Up Teeter Totter

You have noticed that the hand wheel standard on this one is much smaller than the other. That's because it is intended for short runs to 50 feet, which requires smaller weights to counterbalance.



This is the one we use on long runs where the rack and pinion are necessary and larger weights needed to counterbalance the weight of the sash.

WELL do I remember when a kid, playing teeter totter, how hard it was to bear down my end of the board when Fatty Jones was on the other end. But when he slid up nearer the log on which the board teetered, I could do it "easy as pie." His weight was then counterbalanced or evened up by mine.

Exactly the same principle is put into operation by our new counterbalanced gear.

The sash might well be "Fatty Jones." The gears! the teeterboard. The counterbalanced weights, "me."

When tightly installed and counterbalanced this gear runs the sash up, as easy as it goes down. No that's wrong. It goes **up** just a little harder than it goes down; so that when the lower lock is released, the sash will close down themselves. Close down—but **not** slam down.

It will come down itself to within a few inches of the header and then a half turn of the hand wheel pulls the sash down snug and tight.

It is made for short runs, with rod and arm. And for long runs where the rack and pinion is used. The counterbalanced gear is now part of the standard greenhouse equipment.

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Builders of Greenhouses and Conservatories

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No. 10
MAR. 10
1917

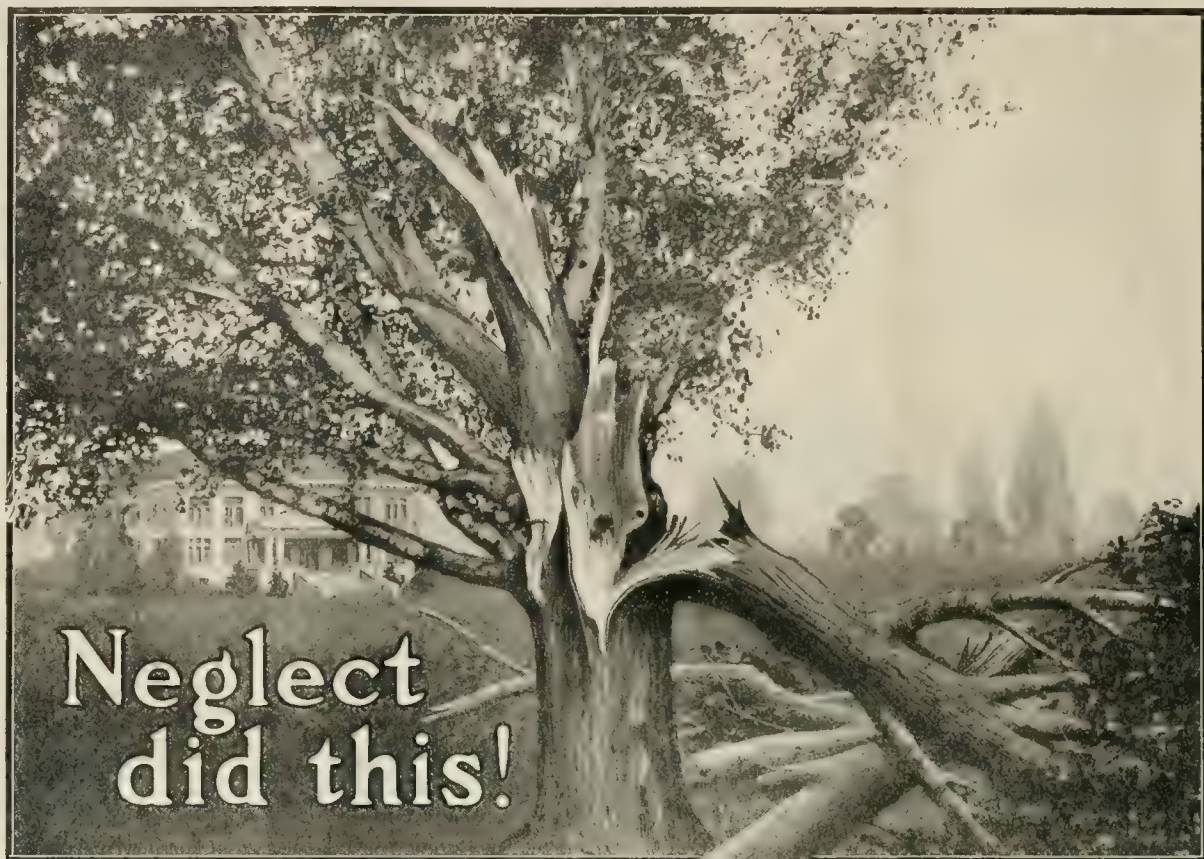
HORTICULTURE



Laelio-Cattleya Gen. Pershing

A New Hybrid Raised by Clement Moore, Hackensack, N. J.

Published Every Saturday at 147 Summer Street, Boston, Mass.
Subscription \$1.00



Neglect did this!

ARE you neglecting your trees?
Do you know positively that they
are strong and healthy—are you sure
they are free from decay and disease?

The owner of the tree shown above assumed that its condition was perfect, but he intended to find out some day for a certainty.

His neglect was fatal. The tree, sound in appearance to the untrained eye, inside was seriously decayed. One day a severe storm blew and the weakened tree gave way ruined beyond saving! It was a case of "the last straw which broke the camel's back."

Take no chances with your trees—have them examined now.
But be sure to select Tree Surgeons of proved ability—experts who can save your trees without guessing or experimenting.

Davey Tree Surgery Is Safe

Your trees, many of them the product of several generations, are priceless. Once lost, they can not be restored in your lifetime, or that of your children. To whom shall you entrust them? There can be only one answer, for there is only one safe place to go—to Davey Tree Surgeons.

Safe—because Davey Tree Surgery is time-proved; its record of successful performance for thousands of estate owners spans a generation.
Safe—because the Davey Company is a successful institution of financial stability and amply able to make good in every detail.

Safe—because no Davey Tree Surgeon is allowed any responsibility until he has conclusively demonstrated his fitness. He must have served his full course of thorough practical training and scientific study in the Davey Institute of Tree Surgery—a school, the only one of its kind in the world, which we conduct for the specific purpose of drilling our men in Davey methods and Davey ideals.

Safe—because Davey Tree Surgery has been endorsed as best by the United States Government, after exhaustive official investigation, and by thousands of prominent men and women.

Tree "patching" cannot save your trees. Only scientific, mechanically perfect treatment by men trained through years to the point of finished skill can be permanently successful. And for such treatment by such men there is only one safe place to go—to Davey Tree Surgeons.

Write today for Free Examination of your Trees

—and booklet, "When Your Trees Need the Tree Surgeon." What is the real condition of your trees? Are insidious diseases and hidden decay slowly undermining their strength? Will the next severe storm claim one or more as its victims? Only the experienced Tree Surgeon can tell you fully and definitely. Without cost or obligation to you, a Davey Tree Surgeon will visit your place, and render an honest verdict regarding their condition and needs. Write today.

The Davey Tree Expert Co., Inc. 1303 Elm St., Kent, Ohio

(Operating the Davey Institute of Tree Surgery, Kent, Ohio)

Branch Offices, with Telephone Connections: New York, Philadelphia and Chicago.

Permanent representatives located at Boston, Newport, Lenox, Hartford, Albany, Poughkeepsie, White Plains, Stamford, Jamaica, L. I., Morristown, N. J., Philadelphia, Harrisburg, Baltimore, Washington, Buffalo, Pittsburgh, Cleveland, Detroit, Cincinnati, Louisville, Chicago, Milwaukee, Minneapolis, St. Louis, Kansas City, Canadian Address: 81 St. Peter Street, Quebec.

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D. S. Chamberlain, President, Chamberlain Medicine Co., Des Moines, Iowa:

"I congratulate you on the excellent work you are doing. I have seen much of this character of work done in some foreign countries, as well as in the United States, but none as perfect, scientific and satisfactory as yours."

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"We have been very much impressed by the work done here by the Davey Tree Company."

Mr. Robert E. Friend, Second Ward Savings Bank, Milwaukee, Wis.:

"I cannot commend too highly the work you have done both this year and last on our place at Pine Lake. Your work on the University Club trees here in the city, under my supervision, was also very good indeed."

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FOR SAFE TREE SURGERY

Every real Davey Tree Surgeon is in the employ of the Davey Tree Expert Company and the public is cautioned against those falsely representing themselves.



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Single				Doz.	100	1000
2½ in. pots,	4 leaves,	8 to 10 in. high	..	\$1.50	\$12.00	\$100.00
3 " "	5 " "	12 " "	..	2.50	18.00	150.00
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A splendid lot of well furnished plants in 8-inch pots.
\$2.00 each.

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Teeka

CANNAS

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Varieties

Ht.	ORANGE (O Orange)	TALL Gladia- tor	Ht.	YELLOW (Y Yellow)
5 Juanita 4½	Bronzy orange color with golden <i>bronz.</i> foliage. An exceptionally attractive flower		5 A magnificent robust Canna that has been a leader for years. Color is bright yellow, spotted with red	
Marvel 4.5	Flowers buff to orange, on green foliage, rather narrow or slight in its growth. Orange scarlet striped yellow	MEDIUM Brilliant	4 Pure, golden yellow, with red tongue	
Mrs. Carl Kelsey San Diego 6		Comte de Bouchard	4½ Intense golden yellow flowers, spotted with bright red	
4	Described as Chinese orange or Persian yellow in color. The crimped petals are remarkable for substance, which enables them to withstand the hot Summer sun without wilting, and another charm is in the buds which are dark bronze harmonizing with the golden <i>bronz.</i> foliage. Grand in every way.	Elizabeth Ross Golden Gate Jane Addams	3½ Yellow, dotted bright red.	
DWARF Cloth of Gold 3	Pure orange, tinted with gold and coppery red. <i>Bronze foliage.</i>	Kate F. Deemer Richard Wallace Coronet (Imp.) Director Holtze	4 Delightful oriole yellow.	
Queen of Holland 3.4	<i>Rich. orange-bronze foliage.</i>		4½ Large flowered; canary yellow. An especially fine bedder.	
			3 Brilliant canary yellow.	
			3 Bright yellow, faintly dotted with soft rose; very fine	

THE CONARD & JONES CO.

West Grove, Pa.

Continued from page 290

Plants and Cuttings

Ready for Immediate Sale

	Per 100	1000
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3-in. pots	.. 6.00	
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LANTANAS, 2¼-in. pots	.. 3.00	
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SALVIA, New sorts, Rooted Cuttings	.. 1.50	12.00
SALVIA Splendens and Bedman	.. 1.00	8.00
TRADESCANTIA, Rooted Cuttings	.. 1.50	
VINCA Variegata and Elegans, 4-in. pots	.. 10.00	
VINCA Variegata and Elegans, 2¼-in. pots	.. 3.00	

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GENISTAS, 5 in. pots, very bushy, and well set with buds, just right for Easter, \$4.00 per doz.

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POT GROWN DEUTZIA GRACILIS, fine for Easter, \$4.00 per doz.

A. L. MILLER, JAMAICA, N. Y.

March 24

Date of Special Flower Show
—AND—
Spring Trade Number

"HAMBURG LATE WHITE" CHRYSANTHEMUM

CERTIFICATE OF MERIT AWARDED BY CHRYSANTHEMUM SOCIETY OF AMERICA.



Above picture was taken Nov. 26, 1916, and will give a good idea of what "Hamburg Late White" looks like when grown to single stems and planted six inches each way.

Rooted Cuttings, \$12.00 per 100; \$100.00 per 1000.

2 inch pots, \$15.00 per 100; \$125.00 per 1000

WILLIAM F. KASTING CO.,

568-570 Washington Street
BUFFALO, N. Y.

"Hamburg Late White" is pure white under all weather conditions and is a sport of Maud Dean white, but has no trace of pink, as the original.

The average grower of chrysanthemums must have varieties which are easy to handle and from which he can cut as near 100% of perfect blooms as possible. "Hamburg Late White" has been grown for the last four years and produces a very high proportion of good flowers. It is not an exhibition variety, but for late white, one of the best for commercial purposes. It can be had in bloom the latter part of November, by taking an early bud; but by selecting later buds, most of the flowers are cut during December and we would advise to select a late bud, as the later buds come somewhat fuller, and by selecting late buds, flowers can be had as late as the middle of January.

Keeping qualities are excellent and where a light, graceful white flower is wanted, "Hamburg Late White" cannot be surpassed.

"Hamburg Late White" will be disseminated in the Spring of 1917. Plants will be ready April 1st, 1917, and all orders will be filled in rotation.

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BOSTONS—\$4 per 100, \$35 per 1000.

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H.H. BARROWS & SON, Whitman, Mass.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toil, we ought to blame the culture, not the soil."—Pope.

Cannas

There are so many new aspirants every year that it is hard to enumerate which are the best, but there are some suitable for all kinds of decoration. There are some dwarf ones, very fine for pot culture. Roots that have been wintered over in a sound condition can now be placed on a bench where the temperature runs from 60 to 65 degrees. Spread a few inches of sand or dampened moss over the bottom, and in a short time every eye will be distinctly developed and can then be divided with a sharp knife into as many pieces as show a green growth. Water with care until they begin to make good roots. Pot these pieces into 3 and 4-inch pots and keep in a warm moist atmosphere until they are well started when they should be given full light. On all good days syringe them freely and when they become crowded give them a spacing so the light will reach all around them.

Coelogyne cristata

A common error is in trying to force coelogyne in too warm a temperature. Fifty to 55 at night will give flowers of finer quality than when grown warmer. This orchid is at its best during February and March and is one of the most useful as a florists' cut flower. Its culture is comparatively simple. Use plenty of drainage. The best compost is fibrous peat and fresh sphagnum in equal parts. After repotting keep them shaded and rather moist until new roots are made. Give weak manure about once a week during the season of growth. Don't shade too heavily. They should have a free cool atmosphere, with syringing over head once or twice a day, never allowing them to become dry at the roots in their growing season. From this out they will need some shade, but do not make it too heavy. On all good days see that they have plenty of ventilation.

Dahlias

In working up a stock of good dahlias from cuttings, the roots should be started into growth from the first week in March and cuttings taken after April 15. Nearly all the newer varieties that are worth raising grow amazingly fast after being once started in any ordinary greenhouse temperature. The roots are started in a bench, or, if there is only a limited number of them, in boxes, planting them somewhat closely together in rich soil. Give the fullest light and not lower than 55 degrees. When they have grown 3 or 4 inches the stoutest and brightest looking shoots should be taken for cuttings. Place in a few inches of well firmed sand with but little bottom heat. A dahlia cutting well

calloused and beginning to emit roots will make better headway than when left longer in the sand. These cuttings will be ready for pots in from two to three weeks.

Early Sweet Peas for Outside

Good varieties to sow are: white—Dorothy Eckford, and White Spencer; pink—Beatrice, Countess Spencer, and Bridesmaid; lavender—Asta Ohn, Frank Dolby, and Lady Grisel Hamilton; orange pink—Miss Willmott and Helen Lewis. Place six or eight seeds to a 4-in pot. Do not keep these where they will have any artificial heat. The ideal place is a cold frame, where they will have a natural start and will make fine stock to plant out later. Sweet peas started this way at once will be in flower from fifteen to twenty days ahead of those sown in the open ground. Have the soil moist before placing the seeds in it, and then they will not need much water until they come up. As they make top growth and root growth they will need lots of water.

Hydrangeas for Memorial Day

Plants started soon after the middle of March in a cool house should be in fine shape for Memorial Day trade. To be right for Memorial Day the buds should now be well exposed and by the second week in May they should show their rosy pink tint. The hydrangeas sell better around the end of May than at any other time of the year. Give good syringings on bright days and continue until they show plenty of color. A week before they are needed they should be gradually hardened in the cooler quarters. Those that have fine foliage and large flower heads should have manure water twice a week until they show color. With the long sunny days they will want plenty of water at the roots. Give plenty of ventilation and give room between the plants every ten days.

Reminders

Seeds of *Ardisia crenulata* can be sown now and grown on.

Transplant thickly sown seedlings into other boxes before they become too lanky and drawn.

Seeds of *mignonette*, stocks and candytuft sown now will amount to good plants by Memorial Day.

Start bulbs and corms or tubers of fancy-leaved caladiums, tuberous begonias, gloxinias and achimenes.

Gardenias for planting in June should now be in 3-inch pots and by April they should be ready for another shift.

Next Week—Azaleas; Care of Carnations; Lily of the Valley in cold Storage; Flowers for Memorial Day; Sweet Peas for Outside; Reminders.

March 24

Date of Special Flower Show AND Spring Trade Number

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far ahead of anything the seed stores have ever been called upon to furnish. There is plenty of disappointment in prospect, no doubt, for thousands of amateur soil tillers, but whatever the total outcome of the present back-to-the-soil campaign may be, in the way of product, the movement is a healthy one, commendable from every view point and should have the hearty co-operation and encouragement of all. The hard experiences of the past few months will not have been profitless to us if it shall have served to introduce and establish here the thrifty home gardening methods of the wage earners of France, Germany and other European countries, for it means more food, better food and cheaper food.

The usual breakdown in the flower market arrived in all important centers on schedule time, apparently. As always at such times the stagnation in the wholesale marts is declared to be the worst on record. Perhaps it is not, but even if it is not there are certain unfortunate conditions connected with it this year that are unprecedented in their effect on the florist industry and the worst of these is the cost of fuel and the difficulty in procuring it at any price. It may be true that greenhouse products generally have enjoyed a somewhat steadier demand and higher prices during the past winter than at any period in recent years but be that as it may we do not believe there are many instances where the increased income has been sufficient to balance the advance in this one item of expense. At the present time it is not possible to purchase soft coal at the mines for less than \$3.25 to \$3.50 per ton. The situation at present gives no hope for improvement and, indeed, higher prices are looked for. The trouble is attributed primarily to the scarcity of labor and the inefficiency of the men still at the mines, the best men having gone to the steel and ammunition industries for higher wages. Then comes the over-crowding and congestion on the railroads, which shows no sign of abatement and which may be worse. It has been noticed in recent years that the depressing influence of Lent upon the flower business does not last much beyond the first week or ten days and we certainly hope that may be the case this year as the greenhouse man will need all the encouragement possible under existing conditions.

Carnation Soil

A
conundrum

Where, oh, where did all the bulbs come from to produce the vast quantities of tulips, daffodils and other spring bulb flowers with which all the flower markets are overwhelmed at this time? Our complacent Holland friends repeatedly assured us last fall that, notwithstanding the closing of some of the best European markets against their products, conditions were such that there could not possibly be any surplus of bulbs to be unloaded upon the American market, but that the indications were really for a scarcity. Somehow, however, the bulbs evidently did get here, otherwise whence comes this avalanche of flowers at the present time? The Dutchman's lot since this wicked war started has been an unenviable one but he appears to have handled the situation with accustomed sagacity and his reputation as a trader seems to be still 100 proof.

The
silver
lining

Should all the home vegetable gardens now proposed be actually planted, the seedmen's bins will get a record cleaning out. On some things they are far from being full even now and the quantity called for is likely to run

Let's grow more and better carnations on the same bench space next season. It can be done and we all know where we can improve our growing. One big factor, the soil for the benches, is just as good as we care to make it. M. A. Patten told us at one of the carnation nights in Boston that if the initial soil was right, subsequent feeding or top dressing mattered little. Mr. Patten spoke from experience and close observation and spoke truly. The preparation of soil for the benches is a matter of utmost importance. This work requires time and care in the selection of materials, the time, with the action of frost, moisture and decomposition, saving labor and mechanical operations. The essential thing is to get the food elements required by the carnation in a soil that will take water and air satisfactorily and keep open and sweet throughout the season, avoiding meal and mud, supplying food and fibre.

There are several good ways to do this and the books

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur C. Ruzicka

Ventilation

Proper looking-after the ventilation does not mean merely keeping the temperatures where they should be, as often the temperatures are all that could be desired and yet the roses will not thrive, for some reason or another. Often this can be traced to insufficient air, especially at this time of the year. After a little experience a grower should be able to tell whether a house needs air as soon as he enters one, and if air should be needed it should be applied even if an additional steam pipe or two should have to be turned on to give the house the temperature which is required. From now on, air will have to be given more freely than ever, and except on very windy nights, a crack of air should be carried all night unless the temperature outside drops to 26 degrees F., when the houses can be closed to save coal. Private growers who do not have to be cutting down operating expenses can carry a little air often even though the temperature outside is below 26, especially where they have hot water heat, and only a pipe or two of steam, used only when needed. Sometimes with a heavy crop just finishing it would pay even the commercial grower to carry a little air, for the buds would color much better with air and cooler temperature. Give the plants all the air needed but do not overdo it—not that it would hurt the plants any, but it would certainly hurt the coal pile, and as the coal is going up and up, too much air would mean a dent in the pocketbook.

Temperature in Ice Box

See that the ice box is properly cooled now that warmer weather is here, and the natural cold cannot be depended on any longer. Buds open and develop surprisingly fast in fresh water and a warm box, and a warm box for a day or two may mean many dollars gone, lost on roses that have opened too far, and have to be sold at a sacrifice or thrown away altogether. Between 42 and 50 is plenty cold enough, with 45 as a good medium. The best way is to follow the stuff once in a while and see how it handles. This will decide the proper temperatures for the ice box. Shipments going any distance will have to be iced to keep the roses from opening too much. When this is done care should be taken not to

and speakers have told them. Some sterilize the soil, some use a good grinder, some take sub-soil. Most growers prepare their bench soil in the field, plowing in rye and cow peas, dressing heavily and using plow and harrow often. All these ways are good. One safe way is to pile sod and dressing in layers in the autumn, and let the frost go away through it all winter and cut it over once or twice after frost, adding bone or lime if needed, thus securing a uniformly incorporated compost ready for the roots. These sod piles are placed near the carnation houses for convenience in filling benches and to be within reach of the hose in dry seasons. A special mixture can be made for varieties of carnations needing heavy or light soil and a section also

let any of the ice or water come in contact with the buds, as these would be hurt, and disfigured so as to be unsalable after being exposed to the air. Have the ice crushed to about the size of walnuts so as not to bruise the foliage between the chunks of ice.

Get Busy in the Garden

There is no reason why a rose grower should not also be a gardener even if only on a very small scale. With the price of vegetables and fruit away up in the air, quite a saving can be made by having your own. Then, too, what a difference in the taste of the fresh picked vegetables, and the greens that have been lying around the store a while. There is always a little space in the rose houses where plants can be started and grown to a very good size, so that when spring opens out, it will not take a whole season to get some vegetables. It is always nice too to have a quantity of fruit on hand, and with a little planning this can easily be accomplished. Prune all grapevines now, if the work has not been done as yet. Go over the apples, too; also all small fruit such as gooseberries and currants, raspberries, etc. Watch for scale on all trees and shrubs and if any show, spray at once with lime and sulphur, Scaline or some of the good soluble oils advertised. We use only caustic soda and water and have had no scale on apple trees since the scale started. Be careful to use a weaker mixture on all peach trees, also plums, as the buds on these are not closed so tight as apples and pears, and should an equally strong mixture be used on these, many of the buds would be killed very likely. Go over all peaches and plums for black knot, and be sure to burn all affected branches. Do not prune the cherries very much for these as a rule do not grow very thick. Do not neglect to have a flower garden. A rose grower has one great help—old greenhouse soil. Add a little bone or manure, and the results obtained will be wonderful. Plant plenty of perennials. These come in long before other flowers and are worth many times their cost.

Plant Now for Summer Bloom

Where roses are wanted in the summer, it will be necessary to plant early—now. Of course it is necessary to have the plants in shape to go into the benches, also to have the soil in condition for the plants to take. With early planting but plenty of bonemeal into the soil, and if it is at all possible secure some real coarse bone such as is used by fruit growers, and mix this well into the soil. This will give the plants plenty to eat. As a rule early planted plants have a long season ahead of them. Use plenty of manure, and pile the benches half an inch more than would be done for regular work. This will settle down as the manure dissolves and by the time winter comes there will not be too much soil in the benches. Use good plants, good soil, clean the benches well, and take care of the plants after planting.

suitable for mulching. Expensive! Yes, it costs more, but look at some of the ranges where carnations have proved unsatisfactory and see whether poorly prepared soil was at the bottom of the trouble. A penny saved is not so good as two pennies earned.

In our effort to do better growing this next season, shall we try indoor growing? It's safe every time if done skilfully and the blooms up to December are better than from field plants.

Charles J. Strunk.

ILLINOIS STATE FLORISTS' ASSOCIATION

The Twelfth Annual Convention of the Illinois State Florists' Association was held at the Floricultural Building, University of Illinois, Urbana, Ill., on Tuesday and Wednesday, March 6-7, with the following program:

Opening session, Tuesday, March 6, 2 o'clock.

Welcome—J. C. Blair, head of Department of Horticulture.

President's Address—C. W. Johnson, Morgan Park.

Report of Secretary—J. F. Ammann, Edwardsville.

Report of Treasurer—F. L. Washburn, Bloomington.

Report of Fertilizer Work—F. W. Muncie, Urbana.

Report of Pathological Work—E. M. R. Lamkey, Urbana.

Report of Instructional Work—H. B. Dorner, Urbana.

Nomination and Election of Officers. Evening Session Tuesday, March 6.

Discussion—"How Can We Increase Flower and Plant Sales."

(a) By Better Arrangements.

(b) By Better Salesmanship.

Morning Session, Wednesday, Mar. 7. Unfinished and New Business, and Inspection of the Greenhouses.

President's Address.

President Johnson's address was as follows:—

Fellow members of the Illinois State Florists' Association:

We are now assembled for our 12th annual meeting. A year ago we had a very successful meeting at Moline in the extreme western part of the state, and now we meet again here at Urbana under the auspices of the Department of Horticulture of the University of Illinois. I am sure every member joins me in expressing our appreciation of the privilege we have in meeting at this institution. Here we come in touch with the work that is being undertaken by the University of Illinois to solve some of the problems which we as individuals have to contend with in our work connected with the cultivation of plants and flowers. Not only this but the work being carried out along the lines of landscape gardening affords much of interest to the landscape gardener as well as to the retail florists whose business is partly of this order.

Every florist of this state whether he is a grower or a retailer should feel it his duty to take a great deal of interest at what is being done here for floriculture, and the Illinois State Florists' Association as a body should never be neglected in giving its aid and support to those in charge of the work. The young men who are devoting four years of their life to be especially trained in the work we represent are going to be a power not only in the business but also in the societies allied thereto.

As your president it gives me pleasure to congratulate you on your efforts of the past year. It has been a fruitful one. At Bloomington last November our first fall flower show was held

—a flower show that was remarkable

in many ways. First and foremost, it was well supported by the members not only by their presence but by contributing largely of exhibits. Every part of the state was well represented; not only the members with large establishments to make their selection from but those not so well equipped did their part by either sending or bringing along an exhibit. The exhibits were of the highest order, receiving much commendation by the visiting public, and we are proud to say that every exhibit was contributed for the good of the cause without any chance of remuneration, it being a free will show in every respect.

I feel it my duty to call the attention of the members of the association to the good work done by our fellow members, the Washburn Bros. of Bloomington, in their efforts to make the show the success it was and to them we owe a vote of thanks. The Commercial Club of Bloomington was also untiring in its efforts to make our visit both pleasant and profitable, and to them we owe our thanks.

The purpose of the meeting at this time is the nomination and election of officers, to hear reports of the work of the different departments by the professors in charge and to transact such other business as may come before the association. I ask your active participation in all the details of the meeting which will not only help the association but be of mutual benefit to every member.

I would suggest for your consideration and discussion the various diseases and insects which attack plants. The Carnation Yellows is still an unsolved problem though good work is being done to get at the bottom of the trouble. Every year some fresh disease or insect seems to come to the front. At the last meeting of the Chrysanthemum Society of America held in Philadelphia last November a member spoke of the trouble growers of his vicinity were having with a form of *cladosporium* or fungoid growth which, commencing at the bottom of the chrysanthemum plant, quickly rises upward, covering the under surface of the leaves with a varnish-like coating that closes up the pores and stops all growth. Another member spoke of the gall fly which attacked his plants very seriously. Experiences of the members with these or any other difficulties should be brought before the meeting and freely discussed for the benefit of all.

To the officers and members I extend my thanks and appreciation for their support during my two terms as your president, and trust the same will be extended to my successor. Our association has done a lot of good for the florists of Illinois, but each year brings its new responsibilities needing the support and co-operation of every one interested in our business.

In these troublesome times it is indeed a pleasure to again meet and shake hands with our fellow crafts-

men—friends who have worked to-

gether the best part of our lives for the good of our common cause.

Secretary's Report.

Secretary Ammann's report was as follows:

The one great event in the history of the association was the Fall Flower Show held at Bloomington, Ill., in November. This was indeed one great success. There were forty exhibitors and all donated the flowers as the show was non-competitive, and all but one or two prepaid the express on flowers sent to the show. This truly shows a spirit of good fellowship, and yet I doubt if any better advertising medium for flowers could be had than such a show. Six certificates of merit were awarded. The attendance was unusually large, over 100 members attending the banquet.

We hope now that the fall show and good fellowship meetings will come to be an annual affair. The association is now the proud owner of 200 vases for exhibition purposes, the executive committee having purchased them from the A. L. Randall Co., at a very liberal reduction from the regular price. Five life memberships have been added to the list, making our present life membership 58, which together with an annual membership of 239 and an honorary membership of four makes the total membership 301. The receipts for the year were \$127.00; disbursements \$157.38.

METHODS FOR INCREASING PRODUCTION OF ROSES AND CARNATIONS.

Report of F. W. Muncie, Associate in Floricultural Chemistry, Illinois Agricultural Experiment Station, to the Illinois State Florists' Association.

A bulletin from the Illinois Agricultural Experiment Station which has just come from the press on "The Use of Commercial Fertilizers for Roses," embodies the information contained in my report of March 7, 1917, with practical suggestions to florists. This report contains further experiments along the same line and uncovers a new line of promise in the study of variability of production by roses and carnations.

Is acid phosphate superior to bone meal?

In the bulletin above and in a number of papers which I have read before this association and one before the American Carnation Society, I have advocated the use of acid phosphate as a thoroughly safe and effective form of fertilizer for supplying phosphorus to rose and carnation plants. In no previous paper have I been able to recommend acid phosphate as superior to bone meal, although I have been rather widely quoted to that effect and a number of growers are trying out acid phosphate in comparison with bone meal. In order to test out this point, two sets, 144 rose plants of each of the varieties Richmond and Killarney, are being grown during the pres-

ent season, one set being fertilized with acid phosphate at the rate of 80 pounds per 100 cubic feet of soil, the other with an equal money value of bone meal, calculated to be 42.8 pounds per 100 cubic feet on the basis of acid phosphate and bone meal costing \$15 and \$28 per ton, respectively. Each of the fertilizers costs more today but the ratio of cost of one to the other is about the same. The plants are two year old stock. I will let the results speak for themselves.

Effect of fertilizing with bone meal and acid phosphate:

	Killarney	
	Bone Meal	Acid Phosphate
Total number per		
144 plants.....	1918	2391
Average per plant.	13.3	16.1

	Richmond	
	Bone Meal	Acid Phosphate
Total number per		
144 plants.....	1792	2069
Average per plant.	12.4	14.3

The advantage in favor of acid phosphate is about 2½ flowers per plant, which I consider a rather remarkable endorsement of acid phosphate, since the figures represent the production only from September 15 to December 18, 1916.

The Illinois Agricultural Experiment Station, if these figures are verified by the results of the remainder of the year, will be able to make a second recommendation of practical importance to the rose grower, viz., that with an equal investment for fertilizer, acid phosphate will yield much the larger returns.

Will Phosphate Fertilizer Increase the Carnation Crop?

In a discussion about a year ago before the American Carnation Society, I stated that no extensive experiments had ever been published showing that phosphatic fertilizer would increase the crop of carnations, but I believed on general principles that it might well do so. I am able to give you the results of experiments with White Enchantress and Champion, the figures being for flowers picked from September 15 to December 18, 1916, (acid phosphate used at rate of 80 pounds per 100 cubic feet of soil).

Effect of Acid Phosphate on Carnation Production

	No. Plants	Total Production	Ave. Production per plant
White Enchantress with Acid Phos.....	352	1656	4.7
White Enchantress without Acid Phos.....	338	1394	4.1
Champion with Acid Phos.....	350	2266	6.5
Champion without Acid Phos.....	356	2219	6.2

The increase with acid phosphate fertilization is around one flower per two plants, which appears more significant when stated as an increase of 500 flowers per each 1000 plants in the bench. If these results are borne out by the rest of the experiment, I will consider the point raised as settled in favor of fertilization with acid phosphate, although apparently carnations are not the heavy feeders roses are, nor receive such marked benefit by fertilization.

Variability in Production of Roses and Carnations

In studying the production of some 1700 rose and 1400 carnation plants during the present year, some data of great interest and fundamental im-

A CALIFORNIA POTATO.



C. W. Ward sends us the photograph from which this greatly reduced engraving is reproduced to show what the soil of Eureka, Cal., is capable of doing to reduce the high cost of living. Mr. Ward says that this "spud" was

14 in. long and weighed 4½ pounds. It is the variety known as the Dutch Red. One 16 inch specimen was cut into six pieces and baked and six people failed to eat it all. It was as white and mealy as one could wish.

portance to florists have resulted; I will include enough of them here for sake of illustration and comment on their significance. The figures below are for the production of flowers by Ophelia, Hoosier Beauty, Killarney and White Killarney plants from September 15 to December 18, 1916, each plant being considered separately and arranged in the table according to the number of flowers produced as indicated in the first column at the left.

Variability in Production by Rose Plants.

No. of Flowers per Plant	Ophelia	Hoosier Beauty	Killarney	White Killarney
1	—	—	—	—
2	—	3	—	—
3	—	2	—	—
4	1	12	—	—
5	—	15	—	2
6	2	21	2	4
7	4	25	1	4
8	11	18	7	4
9	16	21	7	6
10	15	10	14	13
11	12	11	15	8
12	19	2	16	18
13	15	2	18	16
14	18	1	12	13
15	15	—	9	9
16	13	1	7	12
17	1	—	7	14
18	1	—	7	6
19	—	—	10	6
20	1	—	4	5
21	—	—	1	3
22	—	—	3	—
23	—	—	—	—
24	—	—	2	1
25	—	—	1	—
26	—	—	1	—
27	—	—	—	—
28	—	—	—	—

After discarding that portion of the column in each case which contains less than ten plants, there remains a portion near the center where the production varies as much as one hundred per cent. Thus with Ophelia, 13 plants produced 16 flowers while 11 plants produced only eight flowers. If it were possible to raise the average production from the level of eight to that of sixteen, an increase in production of one hundred per cent would result, and that without further investment for greenhouses or labor. Since an increase of 20 per cent by the use of a fertilizer is considered large, the im-

portance of the question relative to those relating to the use of fertilizers is apparent.

Possible causes of this variability are (1) relative location on the bench with respect to illumination, drying out, or temperature, (2) imperfections or poor quality of manetti stock, although some results obtained previously on own-root stock showed me that this cannot be the sole cause, (3) variable vigor and productiveness of plants due to conditions of growth previous to their being set in the bench, and (4) variability of vigor and productiveness in the plants from which the scions of these plants were taken. This seems to me to be the fundamental question; whether plants obtained by the growth of scions from high-producing plants will themselves be high-producers in comparison to these plants whose "parents" (if I may thus loosely term them) were low producers; and so fundamental and practical a question is it that you may expect results to be reported at some future meeting on this subject. Carnations show a similar variability and what I have said above for roses applies to them, also, with the exception, of course, of the possible influence of manetti roots.

COVER ILLUSTRATION.

We have the pleasure of showing for the first time a picture of the new Lælio-Cattleya Gen. Pershing, which will be one of the sensations of the New York Show next week. The pollen parent of this hybrid was Lælia tenebrosa var. Uncas—a tenebrosa with Indian red sepals and petals, the other parent being an extra fine Cattleya Trianae. The hybrid itself is a rich dark flower showing some of the Lælia characteristics, with Indian red sepals and petals. The picture is much reduced from the original size.

Norwich, Conn.—Otto Ernst gave a very instructive talk on rose culture and grape vine pruning before the Norwich Grange, on Wednesday evening, February 28.

CLUBS AND SOCIETIES

AMERICAN SWEET PEA SOCIETY.

The following additional prizes have been received for the Boston show on July 7-8, 1917.

Jerome B. Rice Seed Co.—Vase of 1917 Novelty Sweet Peas, 20 sprays of one variety, \$5 1st, \$3 2nd, \$2 3rd.

Fottler, Fiske, Rawson Co.—Decoration of Sweet Peas for the luncheon table, table suitable to seat eight, table linen to be used no other appointments. Exhibitors may use any green or flower in conjunction, but the Sweet Pea must predominate, \$12 1st, \$8 2nd, \$5 3rd.

American Sweet Pea Society.—Collection of Sweet Pea novelties of 1916-1917 dissemination, catalogued by the American seed trade, Society's silver medal 1st, bronze medal 2nd.

American Sweet Pea Society.—For varieties not yet in commerce. Medals and certificates will be awarded in this class, if in the opinion of the judges they supersede existing varieties. Society's gold medal will be awarded to the finest and most meritorious exhibit of Sweet Peas made by the seed trade on the following conditions, i. e., until the position of the society's finances warrant it, a certificate will be presented in lieu of the medal.

(Duplicate exhibits not necessary in the Morse cup and Gold Medal classes.)

Bar Harbor Horticultural Society.—Display of Sweet Peas, arranged for effect, not over four feet high against a wall and on a table space of 3x6 ft. \$12 1st, \$8 2nd, \$5 3rd.

Newport Horticultural Society.—Nine vases of Sweet Peas, nine distinct varieties, 20 sprays of each to a vase, three vases to consist of varieties of 1916-1917 dissemination listed in American seed trade catalogues, \$12 1st, \$8 2nd, \$5 3rd.

Lenox Horticultural Society.—Six vases, 6 distinct varieties, 20 sprays to a vase, \$5 1st, \$3 2nd, \$2 3rd.

New London Horticultural Society.—Three vases of 3 distinct varieties, \$3 1st, \$2 2nd.

Gardeners and Florists' Club of Boston.—Two tubs of Sweet Peas, distinct varieties in not less than 20 in. or more than 24 in. tubs. \$15 1st, \$10 2nd.

Newport Garden Association.—Display of Sweet Peas of two or more colors (massed, not mixed), arranged for effect on a space of 3x4 ft., and about 3 ft. in height. The harmonious blending of the colors and the artistic arrangements of the exhibit as a whole to be considered in judging. Newport Garden Association's certificate of merit and \$15 1st, \$10 2nd.

Knight & Struck Co.—Collection of 6 vases of Sweet Peas, varieties of 1917 dissemination listed in American seed trade catalogues (private gardeners only). Heathcote Trophy Cup.

The Worcester Co. Hort. Society silver medal will be awarded to the winner of the most first prizes in the amateur classes of the American Sweet Pea Society and Mass. Horticultural Society.

The Garden Magazine Achievement Medal will be awarded to the member of the American Sweet Pea Society winning the most first prizes in the Mass. Horticultural Society open classes.

Geo. W. Kerr offers a prize of \$5 to the member of the American Sweet Pea Society whose vase is considered the finest shown in the Mass. Horticultural Society open classes.

The schedule is now in the hands of the printer and will be issued soon.

WILLIAM GRAY, Secy.

TARRYTOWN HORTICULTURAL SOCIETY.

At the monthly meeting of the society on Wednesday evening, February 21, there was a good turnout of members and a fine display was on the exhibition shelves for which prizes were awarded as follows: Roses Sunburst and Ophelia—1st, J. Streitheway; 2nd John Elliott; 3rd, Abel Weeks. Chori-

Meetings Next Week

Monday, March 12.

Cleveland Florists' Club, Hollenden Hotel, Cleveland, Ohio.

Gardeners' and Florists' Club of Baltimore, Florists' Exchange Hall, Baltimore, Md.

New York Florists' Club, Grand Opera House, New York City.

Rochester Florists' Association, 95 Main St., East Rochester, N. Y.

Tuesday, March 13.

Newport Horticultural Society, Newport, R. I.

Wednesday, March 14.

Cincinnati Florists' Society, Jabez Elliott Flower Market, Cincinnati, O.

Dutchess County Horticultural Society, Fallkill Bldg., Poughkeepsie, N. Y.

Lenox Horticultural Society, Lenox, Mass.

Morris County Florists' and Gardeners' Society, Madison, N. J.

Nassau County Horticultural Society, Pembroke Hall, Glen Cove, N. Y.

Thursday, March 15.

Essex County Florists' Club, Kreuger Auditorium, Newark, N. J.

New Orleans Horticultural Society, Association of Commerce Bldg., New Orleans, La.

North Westchester County Horticultural Society, Mt. Kisco, N. Y.

Tacoma Florists' Association, Macabee Hall, Tacoma, Wash.

Friday, March 16.

North Shore Horticultural Society, Manchester, Mass.

zema illicifolium—1st, Wm. Jamieson. Honorable mention was given James Currie, for a vase of antirrhinums, callas and a cineraria. President Bradley spoke on the growing of bulbous stock, and the exhibitors gave some information on the growing of their exhibits. It was arranged to hold the annual fall show on November 7, 8 and 9. The next meeting, March 21, will be ladies night, for this meeting a prize is offered for a display of bulb flowers.

J. GRANT, Secy.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

The meeting of the Executive Board will be held in the Hotel Biltmore, 43rd street and Madison avenue, New York City, on Friday, March 16th and Saturday, March 17th. The first session will be called at 9.30 A. M. sharp, Friday morning. Any committee of the society or any member of the society desiring to bring any business to the attention of this meeting should communicate with the secretary immediately.

There will be much important business to be presented at this meeting, so it will be necessary for the members to be present promptly on time.

The Legislative Committee will meet at the same hotel at 8.30 P. M. on Thursday, March 15th.

The National Flower Show Committee will hold a meeting at the same hotel on Saturday, March 17th.

JOHN YOUNG, Secy.

FLORISTS' CLUB OF PHILADELPHIA.

A well attended meeting of the Florists' Club was held on March 6th. An animated discussion on the present unsatisfactory conditions in the express service took place and loud calls for improvement were voiced by the members. The traffic manager from the Chamber of Commerce was the principal speaker. Among others were Samuel S. Pennock, Leo Niessen and Edward Reid.

CLUB AND SOCIETY NOTES.

The March meeting of the Cincinnati Florists' Society will be held Monday, March 12th at Hotel Gilson.

The Worcester County (Mass.) Horticultural Society had a reunion, dinner and dance on the evening of March 1st. About four hundred guests participated including many who are prominent in civic affairs, who patted the society on the back in due and ancient fashion for its creditable career since the year 1842.

The association of Kew Gardeners in America will hold its second annual banquet and reunion at Shanley's 117 West 42nd street, New York, on March 16, the business meeting will be held at 7 P. M., followed by banquet at 8 P. M. The price per plate is \$2, and all Kew men are urged to attend and bring their wives or lady friends. Those who are expecting to attend will please oblige and write S. R. Candler, Secretary, P. O. Box, 278, Southampton, N. Y.

The principal event at the regular meeting of the Southampton, (N. Y.) Horticultural Society on March 1st was the competition for a centre piece of cut flowers, which was won by Joseph Cassidy of Wainscott with a beautiful arrangement of Matchless carnations and lily of the valley. Mr. Cassidy also read a splendid essay on Winter Flowering Carnations. Wm. McLeod was awarded a certificate of merit for a fine exhibit of *Richardia africana*. Mr. McLeod will give an essay on Winter Flowering Sweet Peas, on April 5. Jules W. King was appointed a delegate to the Davey convention, and H. H. Wells a substitute. The competition for the April meeting will be on forced hardy flowering shrubs.

J. DICKSON, Cor. Secy.

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NEPHROLEPIS SMITHII, 5 in. pots, \$6.00
per dozen.
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per dozen.
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Section of land must be cleared, and while quantities last we will quote **ROCK BOTTOM PRICES.** Name items and quantities that interest you.

500 White Spruce, 4-9 ft.	2000 Button Bush, 18-24 in.
1000 Koster's Blue Spruce, 2-4 ft.	1000 Spiraea opulifolia, 3-4 ft.
1000 Colorado Blue Spruce, 3-5 ft.	500 Common Hazel, 3-4 ft.
1500 Norway Spruce, 3-6 ft.	500 Clethra alnifolia, 2-3 ft.
1000 Fraser's Fir, 3-5 ft.	2000 Lycium barbarum, 3 yrs.
200 Balsam Fir, 6-8 ft.	500 Prunus Pumila, 2-3 ft.
500 Red Cedar, 3-4 ft.	500 Sumach, Glabra, 4 ft.
500 Hemlocks, 3 ft.	500 Sumach typhina, 4 ft.
500 Jap. Yew, (Upright), 3 yrs.	1000 Spiraea salicifolia, 3-4 ft.
500 Variegated Euonymus radicans, 3 yrs.	500 Spiraea tomentosa, 2-3 ft.
500 Acer ginnale, 4-5 ft.	500 Viburnum lantana, 3-4 ft.
500 Acer ginnala, 4-5 ft.	500 Viburnum Bush Cranberry, 3-4 ft.
6000 Carolina Poplars, 5-9 ft.	500 Viburnum Common Snowball, 3-4 ft.
5000 Lombardy Poplars, 5-7 ft.	500 Symphoricarpos vulgaris, 2-3 ft.
500 European Larch, 7-8 ft.	2000 Bitter-Sweet (Celastrus), 3 yrs.
300 Balsam Poplars, 7-8 ft.	2000 Trumpet Vine (Tecoma), 3 yrs.
300 Golden Hop Trees, 3-4 ft.	2000 Sweet Briers, 3 ft.
1000 White Willows, 4 ft.	500 Rose Hiawatha, 2 yrs.
8000 Laurel, or Glass Willows, 3-5 ft.	500 Achillea, The Pearl, 2 yrs.
500 Regal Willows (Regalis), 3-4 ft.	2000 Shasta Daisies, 2 yrs.
500 Jap. Crab (P. Baccata), 4-5 ft.	1000 White Iris Siberica, 2 yrs.
2000 Golden-Barked Willows, 4 ft.	1000 Blue Iris Siberica, 2 yrs.
400 Bird Cherry (Padus), 3-4 ft.	500 Monarda (Balm), 2 yrs.
500 Hornbeam, 3 ft.	500 Astilbe Japonica, clumps
2000 Red-Barked Cornel, or Dogwood, 3-4 ft.	10000 Vinca minor, 2 yrs.
400 Butterfly Bush 3 yrs	500 Agave reptans, 2 yrs.
2000 Jap. Quince, 2 ft.	500 Boltonia asteroides, 2 yrs.
2000 Scotch Broom, 2-3 ft.	500 Hemerocallis, mixed, 2 yrs.
500 Broom (tinetoria), 2 ft.	500 Pachysandra, 2 yrs.
500 Hypericum Moseirianum, 2 yrs	500 Ranunculus (Buttercup), 2 yrs.
1500 Bush Honeysuckles, 3-4 ft.	500 Sedum spect. (Variegated leaf), 2 yrs.
1000 Dwarf Syringa, 2 ft.	3000 Hydrangea P. G. 18 to 24 inches, bushy and very strong.
1000 Buckthorn, Catharticus, 3-4 ft.	
500 Buckthorn, frangula, 3 ft.	

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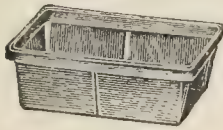
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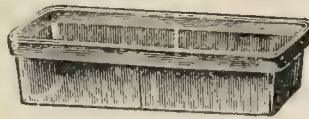
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9 in. long, 6 in. wide, 3 in. deep



Large size No. 2
13 in. long, 7 1/2 in. wide, 3 1/2 in. deep

Nested 500 in a crate. Wire handles detached. Nested 250 in a crate.
Price \$9.00 per 1000 \$2.00 per 1000 extra Price \$17.00 per 1000

Samples Sent Free Upon Request

G. P. READ, Inc., 199 Duane St., New York

ILL-JUDGED PRESS PUBLICITY.

We have received from J. J. Lane, manager of the Garden Magazine a letter vigorously criticising as a very reprehensible publicity effort the following, which appeared in the New York Evening Post, and which Mr. Lane declares to be one of the most wonderful examples of the circus type of press agent "dope" he had ever seen:

ONION THIEVES BEWARE!
Flower Show Has a Detective to Guard Its Bulb Display.

Because of the similarity between gladiolus bulbs and onions, a special detective

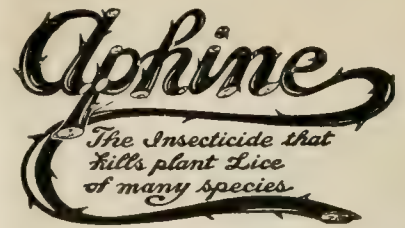
patrol has been engaged to watch the gladiolus exhibit at the International Flower Show, in Grand Central Palace, which opens Thursday, March 15. Lately a number of prospective exhibitors have reported thefts of shipments of bulbs, these being mistaken for crates of onions.

Harry Safir, detective, announcer, and baseball fan, has been engaged by the management for this job. He is known to thousands of metropolitan fans, for he is the personage who so often appears at the home plate at the Polo Grounds and announces in ringing tones, "Batteries f'r f'day is —." Not long ago Harry ran down the crooks who stole the big peanut consignment intended for Polo Grounds consumption. He says if he can protect peanuts, he can do likewise for gladioli, or "amateur onions," as he calls them.

As a side line, Safir will be called upon to watch the rare but scarcely more valuable orchid exhibit, appraised at several hundred thousand dollars, which will include some of the newest and rarest specimens ever brought to or cultivated in America.

Mr. Lane writes: "Far be it from me to figure out how the staid and sedate New York Evening Post saw fit to publish this literary masterpiece. It seems to me that the Publicity Committee have gone far astray in their efforts to interpret to the people what the Flower Show is. All I have learned about advertising convinces me that people form their impressions of a thing from the advertising they see of it. If you never saw a Packard automobile the dignified impressive advertising done by the Packard Company would make you realize that the Packard automobile was ultra supreme, something not in the category of a flivver or a tin Lizzie. The publicity of the Flower Show will likewise give the people an impression of what they are to expect there. If it is the work of the publicity man to try and get the people from the East Side who are not interested in Wallace Pierson roses, F. R. Pierson's roses, or the bulb garden of Scheepers, it certainly seems to me that we are cluttering up the exhibit with people who are not our kind of people. Not that I think it is objectionable to have those people there but in that case why not run a circus instead of a Flower Show?"

An award of merit has been given to a new double flowered variety of the white Primula malacoides by the Royal Horticultural Society of London.



The Recognized Standard Insecticide.
A spray remedy for green, black, white fly, thrips and soft scale.

Quart, \$1.00; Gallon, \$4.50.

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Save your plants and trees. Just the thing for greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrips, Red Spider, Black and Green Fly, Mites, Aunts, etc., without injury to plants and without odor. Used according to direction, our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pets. Excellent as a wash for dogs and other animals. Relieves mange. Dilute with water 30 to 50 parts.

1/2 Pint, 25c.; Pint, 40c.; Quart, 75c.; 1/2 Gallon, \$1.25; Gallon, \$2; 5 Gallon Can, \$9; 10 Gallon Can, \$17.50.

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Try with 24 parts water. Often effective weaker.

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SPRING BULBS

TUBEROUS-ROOTED BEGONIAS

SINGLE-FLOWERING

Crimson, Scarlet, Pure White, Rose, Light Pink, Yellow, Salmon, Orange, Copper or Mixed, all colors.

Doz.	100	1000
Bulbs, 1 1/4 in. diam. and up	\$0.35	\$2.35 \$20.00
Bulbs, 1 1/2 in. diam. and up	.40	2.75 25.00

DOUBLE-FLOWERING

Crimson, Scarlet, Rose, Pure White, Copper-Bronze, Salmon, Yellow, Orange, Light Pink, or Mixed, all colors.

Doz.	100	1000
Bulbs, 1 1/4 in. diam. and up	\$0.50	\$3.50 \$30.00
Bulbs, 1 1/2 in. diam. and up	.65	4.00 35.00

CALADIUM ESCULENTUM

(Elephant's Ear)

Full cases of Caladiums at 1000 Rate
5 to 7 in. in circumference, 200 in a case, 30c. per doz., \$2.25 per 100, \$20.00 per 1000.
7 to 9 in. in circumference, 100 in a case, 50c. per doz., \$3.50 per 100, \$30.00 per 1000.
9 to 11 in. in circumference, 75 in a case, 75c. per doz., \$5.50 per 100, \$50.00 per 1000.
11 to 12 in. in circumference, 50 in a case, \$1.10 per doz., \$8.00 per 100, \$75.00 per 1000.
13 in. and upward in circumference, 25 in a case, \$1.60 per doz., \$12.00 per 100.

FANCY-LEAVED CALADIUMS

The English collection containing twelve varieties of the very finest transparent leaf sorts. Extra fine bulbs, \$2.25 per doz., \$15.00 per 100.
Brazilian Collection of 12 varieties, \$1.50 per doz., \$12.00 per 100.
Mixed Brazilian Varieties, \$1.25 per doz., \$10.00 per 100.

CINNAMON VINE

Bulbs, 6 to 10 in., 30c. per doz., \$2.00 per 100, \$18.00 per 1000.

DIELYTRA SPECTABILIS

(Bleeding Heart)

Strong forcing crowns, \$1.25 per doz., \$8.00 per 100, \$75.00 per 1000.

HYACINTHUS CANDICANS

(Cape Hyacinth)

Large bulbs, \$1.50 per 100, \$12.00 per 1000.

MADEIRA VINES

Large bulbs, \$2.00 per 100, \$18.00 per 1000.

TUBEROSES

Double Pearl. Bulbs, 4 to 6 in. in circumference.....	100	1000
3 to 4 in. in circumference..	\$1.00	\$7.50
Mexican Everblooming.....	.75	5.00
	1.50	12.00



GLADIOLUS

	Doz.	100	1000
America. 1st size. Shell pink	\$0.30	\$1.75	15.00
Augusta. White lavender throat.	.30	1.75	15.00
Baron Hulot. Indigo blue	.35	2.25	20.00
Brenchleyensis. Vermilion scarlet.	.25	1.50	12.50
Halley. Salmon pink to bright red	.25	1.50	12.50
Hollandia. Pink, tinted yellow	.30	2.00	17.50
Hyde Park. White, feathered rose.	.50	3.50	30.00
Kunderdi Glory. Cream pink, crimson stripe.	.50	3.50	30.00
Mrs. Frank Pendleton. Light pink, dark throat	1.00	7.50	60.00
Morning Star. White, crimson throat.	.40	2.50	20.00
Mrs. Francis King. Vermillion scarlet.	.30	1.75	15.00
Niagara. Light pink, carmine throat.	.75	5.00	45.00
Peace. White, lower petals feathered lilac.	.60	4.50	40.00
Panama. An improved America	.40	3.00	25.00
Pink Beauty. Early, deep rose.	.30	1.75	15.00
Pink Perfection. Rose pink	.60	4.00	35.00
Princeps. Rich crimson, extra large.	.40	3.00	25.00

CANNAS, Dormant Roots

Packed 250 in a Case
Full cases at 1000 rate

Red-Flowering Cannas, Green Foliage

	100	1000
A. BOUVIER. 5 ft.	\$2.00	\$17.50
BEAUTE POITEVINE. 3 1/2 ft.	2.00	17.50
BLACK PRINCE. 4 ft.	2.75	25.00
CHARLES HENDERSON. 4 ft.	2.00	17.50
CHEROKEE. 4 ft.	1.50	14.00
CRIMSON BEDDER. 3 ft.	2.75	25.00
DUKE OF MARLBORO. 4 1/2 ft.	1.75	15.00
FURST BISMARCK. 4 ft.	1.65	15.00
EXPRESS. 2 ft.	3.25	30.00
CHANCELOT BULOW. 3 ft.	1.65	15.00
J. D. EISELE. 5 ft.	1.65	15.00
LOUISIANA. 6 ft.	1.65	15.00
METEOR. 5 ft.	12.00	100.00
MEPHISTO. 3 1/2 ft.	1.65	15.00
MUSAFOLIA. 7 ft.	1.65	15.00
PENNSYLVANIA. 5 ft.	1.65	15.00
PRESIDENT CLEVELAND. 3 ft.	2.00	17.50
PRES. MEYER. 4 ft.	2.00	17.50
PILLAR OF FIRE. 6 ft.	2.00	17.50
TARRYTOWN. 3 1/2 ft.	2.00	17.50

Bronze-Leaved Red-Flowering Cannas

KING HUMBERT. 5 ft.	4.00	35.00
BRANDYWINE. 5 ft.	2.00	17.50
DAVID HARUM. 3 1/2 ft.	2.75	25.00
DR. E. ACKERKNECHT. 4 ft.	2.75	25.00
DR. BUDINGEN. 4 ft.	1.65	15.00
EGANDALE. 4 ft.	2.00	17.50
ROBUSTA. Height 6 to 8 ft.	1.65	15.00

Yellow and Yellow Spotted

FLORENCE VAUGHAN. 5 ft.	2.00	17.50
JOHANNA KANZLEITER. 4 ft.	1.65	15.00
GUSTAV GUMPERT. 4 ft.	3.75	35.00
RICHARD WALLACE. 4 1/2 ft.	1.65	15.00
GLADIATOR. 5 ft.	1.65	15.00
AUSTRIA. 6 ft.	1.65	15.00

Orange Shades

MRS. KATE GRAY. 6 ft.	1.65	15.00
WYOMING. 7 ft.	1.65	15.00
INDIANA. 6 ft.	1.65	15.00

Yellow-Edged and Gold-Edged Cannas

AMERICA. 5 ft.	1.35	12.00
ALLEMANIA. 4 to 5 ft.	1.35	12.00
DUKE OF YORK. 5 ft.	2.75	25.00
GLADIO-FLORA. 3 1/2 ft.	1.65	15.00
ITALIA. 4 1/2 ft.	1.50	14.00
JEAN TISSOT. 5 ft.	1.65	15.00
MAD. CROZY. 5 ft.	2.25	20.00
QUEEN CHARLOTTE. 3 1/2 ft.	2.75	25.00
SOUV. de A. CROZY. 4 ft.	2.25	20.00

Pink-Flowering Cannas

LOUISE. 5 ft.	2.00	17.50
MLE. BERAT. 4 1/2 ft.	2.00	17.50
VENUS. 3 1/2 ft.	2.00	17.50
SHENANDOAH. 6 ft.	1.65	15.00

Arthur T. Boddington Co., Inc., 128 Chambers Street, New York City

PUBLICATIONS RECEIVED.

J. F. Noll & Co., Newark, N. J.—Market Gardeners' Seed Catalogue for 1917.

The Cloche Co., New York—Descriptive Price List of "Groquik" Seed and Plant Forcers.

N. A. Hallauer, Ontario, N. Y.—Select List of Bulbs and Tubers, Hardy Plants and Shrubs, Spring 1917.

Metzner Floral Company, Mountain View, Cal.—Gladioli, Petunias, Carnations, Pelargoniums for 1917.

H. Bayersdorfer & Co., Philadelphia, Pa.—A new illustrated list of novelties

and standard goods in florists' supplies, flower baskets, plant boxes, etc. Every florist who gets a copy of this progressive publication will find in it inspiration and instruction.

William Tricker, Arlington, N. J.—Aquatic Plants. The covers show beautiful nymphaeas in natural colors.

M. H. Walsh, Woods Hole, Mass.—Handbook of Roses. A choice list of New and Tested Hybrid Seedling Wichuraiana, Polyantha and other Roses, the selection of the foremost American rosarian. Timely, illustrated and containing useful instruction for the amateur in rose culture.

MASSACHUSETTS AGRICULTURAL NOTES.

The Gardeners' and Florists' Club Annual will be ready for distribution in about two weeks.

F. E. Palmer of Brookline addressed the M. A. C. Gardeners' and Florists' Club on "Retail Store Management" last Thursday evening.

Professor Nehrling is to speak before the Maine Florists' Association at the University of Maine on the subject, "Development of Floriculture," next Thursday.

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Kirby B. White, Detroit, Mich.; First Vice-President, F. W. Bolgiano, Washington, D. C.; Second Vice-President, L. L. Olds, Madison, Wis.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.—Convention at Detroit, June 19, 1917.

American Seed Trade Association.

The annual convention of the American Seed Trade Association goes to Detroit this year. The dates are June 26 to 28. We present herewith a cut of the Hotel Pontchartrain, which will be convention headquarters. President White urges those who expect to attend the convention to make reservation at once as Detroit hotels are usually well filled up in June. Rooms reserved now will be held by number, thus minimizing the possibility of error and disappointment.

One Week's Imports.

Imports at the port of New York, of horticultural material, for the week ending Feb. 23d, were recorded as follows:

Bulbs—Netherlands, \$2,507; Japan, \$382.

Plants—France, \$7,987; England, \$459; Ireland, \$170; Japan, \$189.

Red clover seed—France, \$6,965.

Other clover seed—Canada, \$300.

Grass seed—Scotland, \$1,179; Ireland, \$1,301.

Other seeds—Denmark, \$178; France, \$4,114; Italy, \$1,866; Netherlands, \$509; England, \$10,698; British India, \$2,067; Japan, \$36.

Nitrate of soda—Chile, \$187,475.

Other fertilizers—England, \$310.

Wisconsin Truck Growers to Treat Cabbage Seed.

Many Wisconsin gardeners and truck growers intend to treat their cabbage seed with formalin solution this season, as a means of checking serious damage to their crops from black rot and black leg diseases.

The disinfection of cabbage seed is equally as important as seed treatment for grain smut and potato scab, a common practice on many Wisconsin farms, and known to give big returns on the time and money so invested.

Directions for the use of formalin or formaldehyde in the treatment of cabbage seed have been prepared by R. E. Vaughan, plant disease specialist, College of Agriculture, University of Wisconsin:

"Take 1 ounce of the strong (40 per cent.) solution and mix 2 gallons of water in any ordinary tub or pail. Then take the seed to be treated and put it loosely in a cloth sack which should be tied up and placed in the diluted solution of formalin for 20 minutes. The seed should be stirred around in the solution so as to make sure that all the seeds are entirely wet.

"When the 20 minutes are over, rinse the seed in clear water to remove the formaldehyde and dry at once by spreading on clean papers, canvass, or floor. After drying, the seed is ready to be put in the seeder or when thor-



HOTEL PONCHARTRAIN.
Seed Trade Convention Headquarters

oughly dry can be stored for future use."

Mr. Vaughan gives these few cautions:

"Don't freeze the wet seed.

"Don't return the treated seed to the original packages, because of danger of re-infection.

"Don't leave the seed in the solution more than 20 minutes.

"Don't make the solution too strong, as over treatment injures the vitality of the seed.

"Don't forget that seed treatment cannot eliminate the diseases which may come from infected soil, neighboring fields, or from farm machinery, tramping feet, or insects."

Notes.

Rush City, Minn.—R. E. Killmer, proprietor of the North Star State Nurseries, will open a seed store for spring trade in a few weeks.

We regret to learn of the illness of W. C. Langbridge, representative of the Jerome B. Rice Co., Cambridge, N. Y., and hope he will be able to get out again soon.

We have received from Alois Frey some flowers of his hybrid freesias, which are exceedingly pretty, the colors running all the way from deep bright yellow to deep pink and in a mixed bunch producing a bright sparkling effect. The flowers are borne on tall, vigorous stems.

PUBLICATION RECEIVED

"THE STUDENT WRITER." A Little Talk Every Month with Those Interested in the Technique of Literature, is a very acceptable pamphlet published by Willard E. Hawkins, Denver, Colo. We strongly advise anyone assaying to write articles for publication to subscribe for it. They will get their money's worth in one issue. 50c. a year.

"Seeds with a Lineage" All Varieties
Thoroughly tested at our trial grounds, Raynes
Park, London, England. Send for Catalogue

CARTERS TESTED SEEDS, Inc., 166 Chamber of
Commerce Bldg., Boston, Mass.

MICHELL'S Fancy-leave CALADIUMS

They are Money-makers. Try a Few.

They will promote sales.

Wherever high class decorations are required, Fancy-Leaved Caladiums are indispensable. For table decorations, for jardinières, and for enlivening groups of palms or ferns, they are serviceable; also desirable for bedding purposes. Our list is composed of 12 of the best named sorts.

PRICE

20c each; \$1.75 doz.; \$12 per 100

Also Begonias, Caladium Esculentum, Cannas, Tuberose and all other Seasonable Bulbs, Seeds and Supplies
Send for Wholesale Catalogue.

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518 Market St., PHILADELPHIA

PIN MONEY MUSHROOM SPAWN

8 lb. for \$1.00

Directions Included

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DWARF DOUBLE PEARL TUBE-ROSES. Special prices on application.

CALADIUM ESCULENTUM BULBS.

LILIUM MULTIFLORUM, 7 to 9, 9 to 10 and 10 to 11. Attractive prices on application.

LILIUM FORMOSUM, 7 to 9, 9 to 10 and 10 to 11. (Black stem.)

Please tell us how many you can use and we shall make prices accordingly.

Selected strains of Ageratum, Alyssum, Aster, Begonia Erfordi, Calendula Meteor, Prince of Orange, Candytuft, Celosia, Centaurea, Cobaea scandens, Cosmos, Gypsophila, Lobelia, Petunia, and Verbena. Special prices on the above on application.

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(personally selected strains)

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99 Years

Send for Our 1917 Wholesale Prices
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Tuberous Rooted Begonias

STRONG STOCK.

	100	1000
" Mixed "	2.50	22.50
Double, Separate colors	4.00	35.00
" Mixed "	3.50	30.00

S. S. SKIDELSKY & CO.

1004 Lincoln Bldg. Philadelphia, Pa.

My new Price List of

WINTER-ORCHID-FLOWERING SWEET PEA SEED

Has been mailed. If you have not received a copy, send me postal. Part of new crop will be ready early in July.

ANT. C. ZVOLANER

Sweet Pea Ranch Lompoc, Cal.

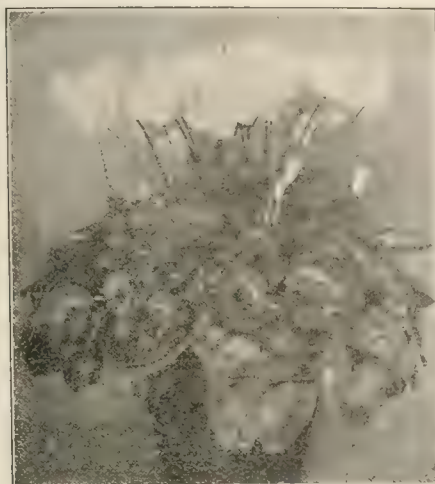
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CERTIFIED PUBLIC ACCOUNTANT

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CYCLAMEN

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Strong plants in 2 1/4 inch pots, for delivery in April.

\$10.00 per 100

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and SEED SERVICE

FOR SALE BY

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LILIUM GIGANTEUM

NEW CROP NOW READY.

	Per 100	Per 1000
7 to 9 in. (300 bulbs to case)...	\$5.50	\$50.00
8 to 9 in. (250 bulbs to case)...	7.00	65.00
8 to 10 in. (225 bulbs to case)...	9.00	80.00
9 to 10 in. (200 bulbs to case)...	10.00	95.00

A. HENDERSON & CO.

211 N. State St., Chicago.

Burpee's Seeds PHILADELPHIA

**BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
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WHOLESALE AND RETAIL.

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Improved styles in Implements.
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LILIUM FORMOSUM

8 1/2, 225 to a case.....	\$80.00 per 1000
9 1/2, 200 to a case.....	85.00 per 1000
11/13, 100 to a case.....	15.00 per case
LILIUM FORMOSUM—Black Stem	
8 1/2, 200 to a case.....	\$80.00 per 1000
9 1/2, 180 to a case.....	90.00 per 1000
11/13, 100 to a case.....	16.00 per case

Write for Complete Stock Circular.
SATISFACTION GUARANTEED.

ORDER NOW

New crop flower and vegetable seeds.
Begonia and Gladiolus Bulbs. 1917
Catalogue on application.

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W. E. MARSHALL & CO. SEEDS, PLANTS AND BULBS Horticultural Sundries

166 W. 23rd St., NEW YORK

GARDEN SEED

BEEF, CARROT, PARSNIP, RADISH and GARDEN PEA SEED in variety; also other items of the short crop of this past season, as well as a full line of Garden Seeds, will be quoted you upon application to

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Deliver orders from any part of the country to

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Or OUT-GOING STEAMERS

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Telephone 1552-1553 Columbus

Of Interest to Retail Florists

AN IMPORTANT MEETING.

Editor HORTICULTURE:

For almost two years I worked a lone hand on bettering shipping conditions connected with the different express companies. It was slow work for my impatience, but I managed.

About six months ago I brought this up at a meeting of our Retail Florists' Association and had from our association also from the Greek American Florists a letter giving me authority to close any agreement which might further our interest, the interest of retail florists.

We shall have a meeting in New York on Friday or Saturday, the 16th or 17th of March. The presidents of the different express companies are willing to do anything possible to protect our shippings, to further our business, and I shall have to give them a few days' notice for what day they should arrange so that they can give us their time.

Any Florists' Club or Retail Florists' Association desiring to send a delegate to this meeting should write me immediately. I will very gladly submit to the different delegates what I have done in this matter heretofore. We can form a committee, elect a chairman in advance of this committee, and instead of representing the few hundred florists of New York only, we can derive benefits for all the florists in the states.

MAX SCHLING.

22 W. 59th St., New York.

NEW FLOWER STORES.

Dickinson N. D.—E. H. Knapp.

Clarion, Ia.—Nicholson & Stutters.

Monticello, Ill.—Avon Flower Shop.

Amherst, O.—Frank Clark, Main street.

Washington, D. C.—Miss Dougherty, corner N and Connecticut avenue.

Providence, R. I.—Mark A. Cassidy & Co., removing to 78 Dorrance St.

San Francisco Cal.—Frank Claverie, 1457 Polk St., succeeding Bianchini & Company.

NEWS NOTES.

Akron, O.—The Botzum Flower Shop has been purchased by Hammer-schmidt & Clark.

Albany, N. Y.—Wm. C. Gloeckner celebrated last week the tenth anniversary of the opening of his flower store.

Berlin, N. J.—The Peacock Dahlia Farms have purchased 42 acres of land at Spring Lake, where they will grow dahlias for the New York and Buffalo markets.

San Francisco, Cal.—The flower stand in the Clift Hotel, formerly conducted by Miss Murray, will in future be operated by Miss Rothschild and Miss Cohn, the Bellevue Hotel florists.

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Cor. Broadway and Gratiot Aves.
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High Grade Cut Blooms

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Members of F. T. D. Association.

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For Retail Stores a Specialty

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HARRY L. RANDALL, Proprietor.
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Flowers by Telegraph

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
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to any of the firms whose address is
here given will be promptly and properly
filled and delivered.

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Lane.

Albany, N. Y.—H. G. Eyres, 106 State
St.

Albany, N. Y.—The Rosery, 23 Steuben
St.

Albany, N. Y.—William C. Gloeckner, 97
State St.

Boston—Thos. F. Galvin, 1 Park St.

Boston—Penn the Florist, 124 Tremont
St.

Buffalo, N. Y.—S. A. Anderson, 440 Main
St.

Buffalo, N. Y.—Palmer's, 304 Main St.

Chicago—William J. Smyth, Michigan
Ave. and 31st St.

Cleveland, O.—J. M. Gasser Co., Euclid
Ave.

Cleveland, O.—Adam Graham & Sons,
5523 Euclid Ave.

Cleveland, O.—Knoble Bros., 1836 W. 25th
St.

Cleveland, O.—The Smith & Feters Co.,
735 Euclid Ave.

Denver, Col.—Park Floral Co., 1643
Broadway.

Detroit, Mich.—J. Breitmeyer's Sons,
corner Broadway and Gratiot Ave.

Houston, Tex.—Kerr, The Florist.

Kansas City, Mo.—Samuel Murray, 1017
Grand Ave.

Los Angeles, Calif.—Howard & Smith,
853 So. Olive St.

New London, Conn.—Reuter's.

New York—J. H. Small & Sons, 505 Mad-
ison Ave., at 52d St.

New York—David Clarke's Sons, 2139-
2141 Broadway.

New York—Alex. McConnell, 611 5th Ave.

New York—Young & Nugent, 42 W. 28th.

New York—A. T. Bunyard, 413 Madison
Ave., at 48th St.

New York—Dards, N. E. corner 44th St.
and Madison Ave.

New York—Max Schling, 22 W. 59th St.

New York—G. E. M. Stumpp, 761 Fifth
Ave.

New York—Thos. F. Galvin, Fifth Ave.,
at 46th St.

Norwich, Conn.—Reuter's.

Omaha, Neb.—Hess & Swoboda, 1415
Farnum St.

Passaic, N. J.—Edward Seery.

Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave., N.

St. Louis, Mo.—Fred C. Weber, 4326-28
Olive St.

St. Paul, Minn.—Holm & Olson, Inc.

Tarrytown-on-Hudson, N. Y.—F. R. Pier-
son Co.

Toronto, Can.—J. H. Dunlop, 8-10 West
Adelaide St.

Washington, D. C.—Gude Bros., 1214 F
St.

Washington, D. C.—George H. Cooke,
Connecticut Ave. and I. St.

Westerly, R. I.—Reuter's.

Worcester, Mass.—Randall's Flower Shop
3 Pleasant St.

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tention

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J. A. VALENTINE, Pres.

Members Florists' Telegraph Delivery.

DENVER, COLORADO



KERR ORDERS FOR TEXAS
HOUSTON, TEXAS
The Florist Member F.T.D. Association

NEWS ITEMS FROM EVERYWHERE

BOSTON.

A card from Tokyo, Japan, announces the arrival there of E. H. Wilson, wife and daughter, on February 8, after a very pleasant voyage.

Charles and Everett Cummings, of Woburn, threaten a suit for damages against the adjoining town of Burlington on account of water which flooded their greenhouses, due, it is alleged, to the freezing up of Burlington catch basins.

B. Hammond Tracy, of Cedar Acres, Wenham, Mass., has received word from his son, B. Hammond Tracy, Jr., who sailed on the Chicago, of his safe arrival at Bordeaux, en route to Paris, where he takes up the American Ambulance work in connection with the Harvard Unit.

Former Mayor John M. Woods, of Somerville, is to encourage the cultivating of vegetables on vacant lots among the children of that city by offering \$50 in prizes for the four best gardens. Mr. Woods suggests that where the city can it should plough up all the soil to help the children out.

J. J. Karins, of Dreer's, is showing Boston growers a new fern which is looked upon with much favor—*Nephrolepis exaltata* Norwood. In habit it is quite distinct from all the other forms of *Nephrolepis*. It is strong and sturdy without being ungraceful and has a poise which is lacking in others of similar type. Its finished character in the small sizes is a characteristic which will be especially appreciated. It originated with Robert Craig Co.

The Horticultural Club of Boston discussed the plant importation problem and the effects on American horticultural industries of the proposed prohibitory legislation, at its meeting on Wednesday evening, March 6. Guests present were: D. M. Rogers of the insect inspection force in Massachusetts, J. J. Karins of H. A. Dreer, Philadelphia, and Ernest Saunders, Lewiston, Me. The table was beautifully decorated with sprays of *Clematis indivisa* from Wm. Anderson, cinerarias from R. & J. Farquhar & Co., and carnations from C. S. Strout.

NEW YORK.

Theodore Roehrs is recovering nicely from the broken arm which he got from a fall on the ice a few weeks ago.

Clarence Slinn has bought the wholesale flower business of D. C. Arnold at 112 West 28th street, and will have the sale of the product of the Arnold greenhouses at Babylon.

The Annual Greek-American Florists' Ball, held at Terrace Gardens on Wednesday night, February 28, was the biggest affair of its kind on record. On Monday night, March 5, the Athens Association, which is a benevolent institution supported by the Greek florists had a ball at the same place. Peter Velotis is the president.

J. M. Thorburn & Co. will again be a prominent exhibitor at the "Internation-

Flower Show, which opens here next week and the Gen. DeWet tulips, which was such an attraction last year, will again be among the many tulip novelties which are to be shown. W. C. Rickards will have charge of the booth which will be located as before on the main aisle.

The Big Shows for 1917

ST. LOUIS—Spring Flower Show, March 15-18.

NEW YORK—International Flower Show, March 15-22.

PHILADELPHIA—National Rose Festival, March 20-23.

BOSTON—Spring Flower Show, March 21-25.

CHICAGO.

One of the employees of Poehlmann Bros. Co., Ernst Quiran, was found dead in the road near Niles Center, Sunday evening.

Robt. Newcomb is back from a very successful trip through the west in the interest of the American Bulb Co., of which he is a member.

Jens Jensen, famous lecturer on landscape gardening, is much in demand at this time. March 5th he addressed the Hyde Park Travel Club of Chicago.

Kennicott Bros. Co. who have taken over the E. C. Amling Co.'s lease in the Le Moyne Building are getting ready for the change which will take place about April 1st.

Reinhold Schiller and his bride returned from their honeymoon trip Sunday and Mr. Schiller's brother-in-law, Walter Hilliar passed away at the Schiller home on the following day. Mr. Hilliar lately returned with Mrs. Hilliar and Miss Schiller from Arizona where it was hoped he would receive benefit. The family have the sympathy of the trade.

Among those who are taking winter vacations and avoiding the March winds of the north, are Mr. and Mrs. C. H. Fisk, of 1581 Ogden Ave., who are now in Florida. In other years Mr. Fisk has been almost an annual visitor to California. Among the wholesalers, H. B. Kennicott and Mrs. Kennicott are visiting Florida where they have business interests.

HORTICULTURE's editorial on the destruction of birds, under the heading "Courting retribution" in last week's issue, called forth favorable comment in Chicago, and it is pleasant to note that just at that time a full line of samples of bird houses was unpacked at the American Bulb Co.'s show room at 172 N. Wabash Ave. They are solidly built, simple in design, low in price, and afford a safe shelter for our feathered friends. They would make a fine side line for any florist.

PHILADELPHIA.

Mrs. Lonsdale, widow of Edwin Lonsdale, arrived from Lompoc, Cal., on March 3rd on a visit to her brother, John Burton, and other relatives in Chestnut Hill and vicinity. This is her first since leaving our midst some nine years ago.

Dr. P. H. Lane, of Chestnut Hill, well-known among the horticultural fraternity, went under an appendicitis operation at the Medico-Chi Hospital on the 5th inst. On the 6th the nurse reported over the telephone that his condition was very serious. He is a native of Nahant, Mass., and a graduate of Dartmouth.

The Bellevue-Stratford Hotel has been selected as headquarters by the American Rose Society for its meetings during the four-day Rose Show. This is the largest and one of the finest houses in the city, and it has arranged to give special low rates to rosarian visitors from out of town provided they mention that they are members of the Rose Society.

Mr. Brown, local manager for Hitchings & Co., with offices in the Pennsylvania Building at 15th and Chestnut street, reports an unusual number of inquiries for new work and that the outlook is very encouraging. Mr. Brown has only been here since last October but he has already made himself very popular with the trade and is a welcome figure at the Florists' Club and other centers of horticultural interest.

A. B. Cartledge, Jr., will open his new store at 220 W. 9th street, Wilmington, Del., on Monday, March 5th. Mr. Cartledge is the son of the senior member of Pennock Bros., Philadelphia, and has been brought up in the business. It is a compliment to the growing city of Wilmington that men like Mr. Cartledge with experience, capital and artistic ability should be encouraged to settle in their midst. The location is in the center of the fashionable business district and the new store is fitted up with all the latest allurements and facilities in every department.

Many prize-winning orchids and other plants were destroyed when fire swept the greenhouses on the estate of George H. McFadden at Villanova. The loss has been estimated at between \$25,000 and \$40,000. Mr. McFadden and family are at Palm Beach. The fire was discovered by George Aitken, head gardener. He and his assistants succeeded in saving more than forty valuable plants before the arrival of the Bryn Mawr fire department. The flames were confined to the greenhouses, but threatened to spread to the stables, where Mr. McFadden has several valuable polo ponies and horses. The cause of the fire is unknown.

A meeting of the various committees of the Rose Festival was held on March 7th. Much important work was done and the final schedule and program gone over and approved. Some of its salient points not previously mentioned are noted here as we go to press:

You Will Get the Easter Orders

IF YOU HAVE THE GOODS THE CUSTOMERS WANT

If Not—Your Competitor Will Get the Business

THE GOODS WE OFFER YOU WILL PLEASE THEM FOR THEY ARE THE BEST IN THE WORLD

We have splendid novelties and all the standard goods in endless variety, Home Manufacture and Imported. Stock up now and have the goods to show customers. Send for catalogue and prices and see how much you can do with a little money when you go straight to headquarters—*The Florists' Supply House of America.*

H. BAYERSDORFER & CO.

Manufacturers and
Importers

1129 Arch Street, PHILADELPHIA, PA.

Write for
Catalogue

The show will open at 2 P. M., Tuesday, March 20th.

Staging must be finished by 12 o'clock noon each day.

Exhibits of Commercial Cut Roses and Plants to be staged on the 20th.

Exhibits of Non-commercial Cut Roses to be staged on the 21st.

Class 220 is for Display of Cut Roses by commercial growers, to be staged Thursday, 22nd, covering 200 square feet of space, and to contain not less than 500 nor more than 1,000 blooms.

First prize, \$250; second, \$150; third, \$100.

In addition to the above cash prizes, a gold medal, value \$50.00, is offered by Kroeschell Bros. Co., Chicago, as an extra on the first; and by the Toronto Horticultural Society, a silver and a bronze medal on the second and third.

The annual meeting of the society will be held in the Bellevue-Stratford Hotel on Wednesday, March 21st, at 9.30 A. M.

PITTSBURGH.

Dr. Otto C. Jennings and Dr. Coggeshall lectured at the banquet of the Florists' and Gardeners' Club on "The Cliff Dwellers of the Colorado and Rio Grande," "Bulbs and Bulb Flowers" was the subject of the meeting proper.

Beginning next Monday the A. W. Smith Co. will have a display of landscape rendering through the medium of water colors and sketches at the Keenan building. Ralph H. Pinner is director of the landscape department.

One of the most attractive flower shops on the North Side is that of Albert Brigg at 904 Federal street in which he is assisted by Mrs. Brigg and Miss Grace Dryden. Prior to starting independently in business last September Mr. Brigg was an employee of the A. W. Smith Co.

In urging the promotion of the cultivation of flowers the Post has the following: "When it comes to flower raising some of the mill men of the south side and other manufacturing sections can give some valuable advice. They have made attractive spots where it was thought impossible to produce grass and flowers."

AZALEA GROWING IN CALIFORNIA



The accompanying picture shows one of the great slat houses, covering three acres of ground and used for

wintering azaleas at Cottage Gardens Co.'s farms at Eureka, Cal. These slat houses are heated by steam pipes and a huge oil-burning boiler.

WASHINGTON, D. C.

William A. Barber, who was in charge of the Ninth St. store of Fred H. Kramer on Inauguration Day, was the victim of two unidentified men who, after hitting him on the head with a piece of lead pipe, robbed the store of \$36.

An examination for the position of division park foreman has been announced by the U. S. Civil Service Commission, to be held on March 24. Applicants must have had at least five years practical experience as trained gardeners and have been in charge of men engaged in the improvement, care and maintenance of parks.

March 20 is the date set by Miss Louise Daugherty and George Gouldman for the opening of the new florist store at Connecticut Ave. and N street, N. W. Both Miss Daugherty and Mr.

Gouldman have been connected with the store of George C. Shaffer. William J. Galt, who has been employed at the store of George C. Shaffer for some months, has returned to Philadelphia on account of the illness of his wife.

DETROIT.

We regret to report the misfortune which befell one of Detroit's prominent florists, Frank Holznagel, whose entire plant was gutted by fire, the early part of last week. The fire, starting in the garage, burned three cars and left the place in ruins. The loss is only in small part covered by insurance.

Cincinnati.—Mr. and Mrs. E. G. Gillett have returned from Florida. Mr. and Mrs. J. A. Peterson spent the past several weeks on a sight-seeing trip.

GARDENIAS

The Best \$25.00 per 100
Fancy \$20.00 per 100
Firsts \$15.00 per 100

At our prices every Retail Florist can handle them. If you buy 25 at one time we bill them at the 100 rate.

THE LEO NIESSEN CO.

Wholesale Florists

1201-05 Race Street,

PHILADELPHIA, PA.

Advertisers' Opportunity

Boom Your Spring Trade

In the Spring Flower Show Issue of HORTICULTURE.

This highly interesting number will be issued MARCH 24.

It will find many thousands of eager readers in every part of the country.

You know the quality of Horticulture readers. Tell them what you have to offer. Let HORTICULTURE be YOUR SALESMAN.

THEY'LL BUY

EDWARD REID WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.
CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

W. A. LEONARD J. M. DEUTSCHER
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Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$1.85. 50,000...\$8.00. Sample free.
For sale by dealers.

E. G. HILL CO.

Wholesale Florists
RICHMOND, IND.

Please mention Horticulture when writing.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty
264 RANDOLPH ST., DETROIT, MICH.

The House for Quality and Service

ZECH & MANN

We are Wholesale Florists Doing
a Strictly Wholesale Business

30 East Randolph Street, CHICAGO



POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut Flower Market

Daily consignments from leading growers Full line of Florists' Supplies Write for quotations before ordering elsewhere

262B DEVONSHIRE ST., BOSTON, MASS.
Telephone, Main 6267-6268

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON Mar. 8		ST. LOUIS Mar. 5		PHILA. Mar. 5	
Roses						
Am. Beauty, Special.....	20.00	to 35.00	30.00	to 40.00	60.00	to 75.00
" " Fancy and Extra.....	10.00	to 15.00	20.00	to 30.00	30.00	to 60.00
" " No. 1 and culls.....	4.00	to 8.00	4.00	to 10.00	6.00	to 15.00
Russell, Euler, Mock.....	2.00	to 10.00	5.00	to 15.00	6.00	to 25.00
Hadley.....	2.00	to 12.00	.....	.....	6.00	to 25.00
Arenberg, Hoosier Beauty.....	4.00	to 10.00	4.00	to 8.00	6.00	to 15.00
Ward.....	2.00	to 8.00	3.00	to 8.00	4.00	to 8.00
Killarney, Radiance, Taft.....	2.00	to 9.00	3.00	to 8.00	3.00	to 10.00
Ophelia, Sunburst, Hillingdon.....	4.00	to 10.00	3.00	to 10.00	4.00	to 15.00
Key.....	6.00	to 12.00	.....	.....	.....	.....
Carnations.....	1.00	to 2.50	2.00	to 4.00	2.00	to 4.00
Cattleyas.....	30.00	to 40.00	.....	to 50.00	50.00	to 60.00
Dendrobium formosum.....	.....	to 50.00	.....	.....	.....	.....
Lilies, Longiflorum.....	8.00	to 10.00	.....	to 12.50	.....	to 6.00
Lilies, Speciosum.....	6.00	to 8.00	.....	.....	5.00	to 8.00
Callas.....	6.00	to 8.00	.....	to 15.00	8.00	to 12.00
Lily of the Valley.....	3.00	to 5.00	.....	to 6.00	4.00	to 6.00
Snappdragon.....	3.00	to 6.00	.....	.....	4.00	to 12.00
Daffodils.....	1.00	to 2.00	2.00	to 3.00	2.00	to 4.00
Narcissi, Paper White.....	1.50	to 2.00	2.00	to 3.00	2.00	to 4.00
Roman Hyacinths.....	.....	.....	.....	.....	3.00	to 4.00
Freesia.....	1.50	to 4.00	2.00	to 3.00	2.00	to 3.00
Tulips.....	1.50	to 5.00	2.00	to 4.00	2.00	to 4.00
Calendulas.....	2.00	to 3.00	.....	.....	2.00	to 4.00
Sweet Peas.....	.35	to 1.00	.50	to 1.00	.50	to 2.00
Violets.....	.20	to .40	.15	to .30	.50	to .75
Marguerites.....	1.00	to 3.00	.....	.....	.....	to 1.00
Gardenias.....	2.00	to 12.00	.....	.....	15.00	to 35.00
Adiantum.....	1.00	to 1.50	.....	to 1.00	1.00	to 1.50
Smilax.....	12.00	to 20.00	15.00	to 20.00	15.00	to 20.00
Asparagus Plumosus, & Spreng. (100 Bchs.).....	25.00	to 35.00	35.00	to 50.00	25.00	to 50.00

WILLIAM F. KASTING Co.

Wholesale Florists

568-570 WASHINGTON STREET - BUFFALO, N. Y.

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER of

CUT FLOWERS

In writing to Advertisers kindly mention Horticulture

Flower Market Reports

BOSTON The local conditions have not improved any since last report, but accumulations are much heavier and sales exceedingly slow. Prices have taken a big drop and published quotations do not give any very clear insight into the prices at which large lots are unloaded when a well-posted customer draws his wallet. Double daffodils of splendid quality are now coming in heavily. English primroses are selling at \$2.00 per dozen bunches.

There is no waiting for **BUFFALO** trains and express companies to deliver promptly at this time for the stock is on hand at all times in the wholesaler's coolers these Lenten days. No orders go short on any one line as there is more than sufficient of everything to fill any order no matter how large. Daffodils, tulips and other bulbous stock is overflowing. Roses are plentiful, as also are lilies, carnations, sweet peas, violets, lily of the valley, freesia and other stock. It is hoped that the coming week may bring about change for the betterment of the market.

The first week in March **CHICAGO** brought such an increase in quantity of stock and consequent lowering of price that more business naturally was looked for. As so often occurs in the florists' business, the reverse took place instead and customers were fewer and not so anxious to buy even when their money would go so much farther. A near glut exists in spring flowers, and daffodils have been sold as low as ten dollars per thousand in order to move them the past week. Fortunately but little stock has arrived from the south. Tulips are dragging also and freesias are accumulating. Carnations have not changed materially, at least not for the better, for evidences are unmistakable that the supply still far exceeds the demand. Roses are coming more freely. Quality is very good and the regular daily sales use up nearly everything. Some very fine tall snapdragons are offered, the pink ones bringing the highest price (two dollars per dozen.) There are quantities of mignonette, candy-tuft, poeticus, callas, ten-weeks' stock, violets, etc. Calendulas, which have sold well ever since the holidays are now going slowly. Sweet peas are in all qualities and many move daily though they also are in excess of demand.

Business is better **CINCINNATI** than it was at the beginning of Lent. The supply is larger while the demand for stock is more active. Shipping business is fair. Roses and carnations are in an excellent supply. Lilies are not very plentiful. The supply of sweet peas is generally in excess of the demand. Bulbous stock has a fair sale.

The market for the past **DETROIT** week shows a marked improvement over the preceding one both in quality and in quantity of all stock. A few sunny days have brought along a nice lot of local roses: seasonable stock of course

Two attractive offerings, particularly for week end sales



Special No. 1. Our selection as to color, best quality, in lots of 500 or over at \$3.00 per 100

Special No. 2. Our selection as to color, medium quality, in lots of 500 or over at \$2.00 per 100

Write for our Easter list of plant offerings

S. S. PENNOCK-MEEHAN CO.

THE Wholesale Florists of PHILADELPHIA

NEW YORK
117 W. 28th St.

PHILADELPHIA
1608-1620 Ludlow St.

BALTIMORE
Franklin & St. Paul Sts.

WASHINGTON
1216 H St., N. W.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI Mar. 5		CHICAGO Mar. 5		BUFFALO Mar. 5		PITTSBURGH Mar. 5	
Roses								
Am. Beauty, Special.....	45.00	to 50.00	40.00	to 50.00	.....	to 60.00	50.00	to 75.00
" " Fancy and Extra.....	25.00	to 35.00	30.00	to 40.00	35.00	to 40.00	25.00	to 30.00
" " No. 1 and culls.....	8.00	to 20.00	6.00	to 15.00	8.00	to 15.00	10.00	to 30.00
Russell, Euler, Mock.....	.....	to 25.00	6.00	to 25.00	6.00	to 8.00	6.00	to 15.00
Hadley.....	.....	to 10.00	.....	to 10.00	6.00	to 10.00	.....	to 10.00
Arenberg, Hoosier Beauty.....	6.00	to 10.00	.....	to 10.00	6.00	to 10.00	.....	to 10.00
Ward.....	5.00	to 8.00	4.00	to 8.00	4.00	to 6.00	6.00	to 12.00
Killarney, Radiance, Taft.....	3.00	to 8.00	4.00	to 8.00	8.00	to 12.00	4.00	to 15.00
Ophelia, Sunburst, Hillington.....	6.00	to 10.00	6.00	to 10.00	5.00	to 10.00	6.00	to 15.00
Key.....	.....	to 10.00	.....	to 10.00	.....	to 10.00	.....	to 10.00
Carnations	2.00	to 4.00	2.00	to 3.00	2.00	to 3.00	2.00	to 4.00
Cattleyas.....	.....	to 75.00	40.00	to 60.00	40.00	to 50.00	50.00	to 75.00
Dendrobium formosum.....	.....	to 15.00	.....	to 15.00	.....	to 15.00	.....	to 15.00
Lilies, Longiflorum	12.50	to 15.00	10.00	to 12.50	10.00	to 12.00	12.00	to 15.00
Lilies, Speciosum	6.00	to 10.00	.....	to 10.00	4.00	to 6.00	.....	to 10.00
Callas	8.00	to 10.00	8.00	to 12.00	8.00	to 12.00	.....	to 10.00
Lily of the Valley.....	.....	to 7.00	5.00	to 6.00	5.00	to 6.00	4.00	to 8.00
Snapdragon	4.00	to 6.00	8.00	to 16.00	5.00	to 8.00	6.00	to 12.00
Daffodils	3.00	to 4.00	2.00	to 3.00	2.50	to 3.00	2.00	to 4.00
Narcissus, Paper White.....	.....	to 3.00	2.00	to 3.00	2.00	to 3.00	2.00	to 4.00
Roman Hyacinths.....	.....	to 1.00	2.00	to 3.00	2.00	to 3.00	.....	to 1.00
Freesia	2.00	to 3.00	1.00	to 3.00	2.00	to 3.00	4.00	to 6.00
Tulips	3.00	to 4.00	1.00	to 3.00	2.50	to 3.00	2.00	to 5.00
Calendulas	2.00	to 3.00	1.00	to 3.00	3.00	to 4.00	4.00	to 5.00
Sweet Peas	75	to 1.00	.50	to 1.50	.75	to 2.00	.50	to 2.00
Violets	50	to .75	.50	to 1.00	.30	to .50	.50	to .75
Marguerites	75	to 1.00	.75	to 1.00	1.00	to 1.50	2.00	to 3.00
Gardenias.....	.....	to 1.00	.....	to 1.00	.....	to 1.00	.....	to 1.00
Adiantum.....	.....	to 1.00	.....	to 1.00	1.00	to 1.25	.75	to 1.25
Smilax.....	.....	to 15.00	12.00	to 18.00	.....	to 15.00	12.00	to 15.00
Asparagus Plu. & Spren. (100 Bhs.)	25.00	to 50.00	25.00	to 50.00	25.00	to 50.00	30.00	to 60.00

is abundant. The demand is very brisk, all retailers reporting good business.

The lenten listless-
NEW YORK ness which over-
whelmed this market

last week is still with us but the receipts of roses and carnations are somewhat reduced and if the flood of bulbous flowers would only subside, the situation would probably improve soon. There is no end of daffodils and tulips—many of them of high quality, and freesias, lilies and callas are also heavily overstocked. Sweet peas are almost as badly stagnated as are the bulbous flowers and many of them are of very inferior quality, which makes them practically unsaleable. There are many carnations in sight, of miserable quality. Really good carnations bring a respectable price still. The quality of roses generally is excellent, Hadley still holding her position as mistress of the flower market. The special blooms of this rose are simply

marvelous and are eagerly snatched up at nine dollars a dozen, wholesale. Asparagus plumosus and smilax are in short supply.

Slowest week for
PHILADELPHIA some time — is
the general ver-

dict here. Bad weather for one thing. Maybe Lent to some extent. And many more flowers. Prices have receded very considerably all along the line. Quantity ahead of demand, and all in buyers' favor. Quality fine, in nearly all staples. The scarce items seem to be greens and American Beauty roses.

Owing to inclement
PITTSBURGH weather products
have been retarded
a little, but this is only temporary. Lilies and lily of the valley are scarce, but other bulb products of all varieties have been over plentiful. Notwithstanding the Lenten season, business has kept up remarkably well. There

(Continued on page 31)

H. E. FROMENT

Wholesale Commission Florist
Choice Cut Flowers

New Address, 143 West 28th St., NEW YORK
Telephones: 2200, 2201, Madison Square.

HENTZ & NASH, Inc.

Wholesale Commission Florists

55 and 57 West 26th Street
Telephone No. 755 Farragut
New York

WM. P. FORD

Wholesale Florist

107 W. 28th Street, NEW YORK

Telephone 5335, Farragut.

Call and inspect the Best Establishment
in the Wholesale Flower District.

GEO. C. SIEBRECHT

WHOLESALE FLORIST

109 WEST 28th ST

CONSIGNMENTS SOLICITED

PHONE 608, FARRAGUT NEW YORK
609

JOHN YOUNG & CO.

WHOLESALE FLORISTS

53 WEST 28th STREET NEW YORK CITY

Consignments Solicited
Phone 7362 Madison Square

THE KERVAN COMPANY

Ferns, Mosses, Wild Smilax, Galax,
Leucothoe, Palmetto, Cycas, both fresh
cut and prepared.

Laurel, Hemlock, all Decorative Evergreens.

(tel. 1583) Mad. Sq. 119 W. 28 St., New York
5083

WILLIAM H. KUEBLER

Brooklyn's Foremost and Best

WHOLESALE COMMISSION HOUSE

A First Class Market for all CUT FLOWERS

28 Willoughby St., Brooklyn, N. Y.

M. C. FORD

121 West 28th St., NEW YORK

FINE ROSES, FANCY CARNATIONS

A Full Line of ALL CUT FLOWERS.
Telephone 3870 Farragut.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N. Y.

RIEDEL & MEYER, Inc.

Wholesale Commission

READY FOR BUSINESS

49 WEST 28th ST. NEW YORK.

P. J. SMITH

WHOLESALE COMMISSION FLORIST SELLING AGENT FOR
LARGEST GROWERS

A full line of Choice Cut Flower Stock for all purposes.

TELEPHONE 2281 FARRAGUT 131 West 28th St., NEW YORK CITY
3089

ALBANY CUT FLOWER EXCHANGE

THOMAS TRACEY, Mgr. 611 Broadway, ALBANY, N. Y.
WHOLESALE ONLY

SAVE TIME AND MONEY BY SENDING YOUR ORDERS TO US

Prices Right. Consignments Solicited. Telephone Connection

Centrally Located, The Hub of the Flower Market Section

CHARLES MILLANG

Wholesale Florist

55 and 57 W. 26th Street, - - NEW YORK

Telephone 2483 Farragut

ORCHIDS - - GARDENIAS

HEADQUARTERS for the entire output of the

BEECHWOOD HEIGHTS NURSERIES, of Bound Brook, N. J.

PAUL MECONI — Wholesale Florist — NEW YORK

Telephone Nos. 3864 and 8364 Madison Square

57 WEST 26th STREET

A GOLD MEDAL is not expected by us for doing our duty by our consignors and customers
We have 22 years' experience behind us

FANCY GRADE ORCHIDS, SEPTEMBER MORN, AMERICAN BEAUTY, PRIMA
DONNA AND ALL OTHER ROSES, LILIES, CARNATIONS, VIOLETS,
ASPARAGUS AND SMILAX and all other Seasonable Flowers.

GUTTMAN & RAYNOR, Inc., Wholesale Florists

Phones: Farragut 558, 2036 and 2037

101 West 28th Street, NEW YORK

NEW YORK QUOTATIONS PER 100. To Dealers Only**ROSES AND CARNATIONS**

	Last Half of Week ending Mar. 3 1917		First Half of Week beginning Mar 5 1917	
American Beauty, Special	50.00	to 75.00	50.00	to 75.00
" " Fancy and Extra	30.00	to 40.00	30.00	to 40.00
" " No. 1 and culls	8.00	to 15.00	8.00	to 15.00
Russell, Euler, Mock	6.00	to 15.00	5.00	to 15.00
Hadley	15.00	to 75.00	15.00	to 75.00
Arenberg, Hoosier Beauty	3.00	to 10.00	3.00	to 10.00
Ward	3.00	to 10.00	3.00	to 10.00
Killarney, Radiance, Taft	3.00	to 5.00	2.00	to 5.00
Ophelia, Sunburst, Hillingdon	3.00	to 10.00	5.00	to 10.00
Key	5.00	to 12.00	6.00	to 12.00
Carnations	1.00	to 3.00	1.00	to 3.00

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MAURICE L. GLASS, Treasurer

Flower Market Reports

(Continued from page 315)

was an extraordinary number of street fakirs abroad last Saturday, the majority being young Hebrews utilizing the holiday from high schools and University of Pittsburgh.

The market conditions **ST. LOUIS** here for the past week have been quite satisfactory. White carnations are scarce and roses are plentiful but bringing good prices. Narcissi of all kinds are on the increase, shipments of outdoor blooms from the south adding to the difficulty of disposing of them.

Stock of all varieties is abundant, with the exception of American Beauty roses. Other roses are more plentiful and are selling well. Violets and sweet peas have filled the market and have caused the price to drop materially. Double violets sold as low as \$3 per thousand, single violets at \$5 and sweet peas at \$5. Orchids are more plentiful and gardenias scarce. The oversupply of lilies has forced the prices down considerably.

Visitors' Register

Cleveland, O.—J. K. M. L. Farquhar, Boston.

Cincinnati—W. J. Vesey, Ft. Wayne, Ind.; C. S. Ford, New York.

New York—L. J. Reuter, Westerly, R. I.; Ed. Flood, Philadelphia; W. R. Gray, Oakton, Va.

Pittsburgh—Milton Alexander, New York; George Husmann, A. L. Randall Co., Chicago; Samuel Freund, Duro Paper Products Co., Chicago.

Boston—C. B. Weathered, New York; A. E. Thatcher, Bar Harbor, Me.; Ernest Saunders, Lewiston, Me.; C. S. Strout, Biddeford, Me.; Wm. Anderson, Lancaster, Mass.

Philadelphia—S. K. Hostetter, State College, Pa.; Wm. J. Stewart, Boston, Mass.; Mrs. Edwin Lonsdale, Lompoc, Cal.; S. Suzuki and C. W. Scott, Yokohama Nursery Co., N. Y. City.

Washington, D. C.—Mrs. Fred M. Gust, Seattle, Wash.; Robert Shoch, Phila.; P. Vandekamp, of DeGraaf & Son, Lisse, Holland; H. C. Black, Morrisville, Pa.; S. S. Skidelsky, Phila.; John Paul, Cumberland, Md.; I. Rosnosky, Michell Co., Phila.; F. Wertz, Roanoke, Va.

Chicago—Mr. and Mrs. A. N. Richardson, St. Joseph, Mich.; J. F. Ammann, Edwardsville, Ill.; Mr. and Mrs. Heckenkamp, Quincy, Ill.; John Pilcher, Webster Grove, Mo.; C. C. Hunter, Minneapolis, Minn.; J. A. Young of Aurora Nurseries, Aurora, Ill.; Peter Papas, Detroit, Mich.; Mr. and Mrs. S. F. Beard, Detroit.

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MISCELLANEOUS	Last Half of Week ending Mar. 3 1917	First Half of Week beginning Mar. 5 1917
Cattleyas.....	20.00 to 35.00	20.00 to 35.00
Dendrobium formosum.....	..... to 60.00	..... to 60.00
Lilies, Longiflorum.....	8.00 to 10.00	6.00 to 8.00
Lilies, Speciosum.....	4.00 to 8.00	4.00 to 8.00
Callas.....	6.00 to 10.00	6.00 to 10.00
Lily of the Valley.....	3.00 to 5.00	3.00 to 5.00
Snapdragons.....	3.00 to 5.00	3.00 to 5.00
Daffodils.....	1.00 to 2.00	1.00 to 1.50
Narcissi, Paper White.....	1.00 to 1.50	1.00 to 2.00
Roman Hyacinths.....	1.00 to 2.00	1.00 to 2.00
Freesia.....	1.00 to 2.00	1.00 to 3.00
Tulips.....	1.00 to 3.00	1.00 to 3.00
Calendulas.....	1.00 to 3.00	1.00 to 3.00
Sweet Peas.....	1.00 to 3.00	1.00 to 3.00
Violets.....	.10 to .50	.10 to .50
Marguerites.....	.25 to .50	.25 to .50
Gardenias.....	1.00 to 2.00	1.00 to 2.00
Adiantum.....	3.00 to 40.00	3.00 to 35.00
Smilax.....	.50 to 1.00	.90 to 1.00
Asparagus Plumosus, & Spreng. (100 bunches).....	12.00 to 15.00	12.00 to 15.00
	15.00 to 35.00	15.00 to 25.00

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and are dealers in
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Florists' Requisites

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display Advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

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APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
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ASPARAGUS

Henry F. Mitchell Co., Philadelphia, Pa.
Asparagus Plumosus and Sprengeri Seed.
Asparagus Plumosus Seedlings, \$1.00 per 100, \$5.00 per 1000. Ready May 1st. COL-
LINGDALE GREENHOUSES, Collingdale, Pa.

ASTERS

W. Atlee Burpee Co., Philadelphia, Pa.
New Aster American Beauty.

AZALEAS

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BAY TREES. Write for wholesale price-list.
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and 44 Whitehall St., New York City.
Spring Bulbs.
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C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK BRANCH, 8-10 Bridge St.

CANNAS

Arthur T. Boddington Co., Inc., New York City.
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CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
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CARNATION STAPLES

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 1000 for 35c.; 3000 for \$1.00 post-paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

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DAHLIAS

Peony Dahlia Mrs. Frederick Grinnell.
Stock For Sale.
JOHN P. ROONEY, New Bedford, Mass.

ORDERS BOOKED ANY TIME
For Fall or Spring delivery. Wholesale and Retail. Send for Catalogue. NORTHBORO
DAHLIA & GLADIOLUS GARDENS, J. L. Moore, Prop., Northboro, Mass.

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PEACOCK DAHLIA FARMS, Berlin, N. J.

DECORATIVE PLANTS

Julius Roehrs Co., Rutherford, N. J.
Choice Flowering and Foliage Plants.
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Scottii Ferns, 2½ in. pots.....\$5.00 per 100
" 3 in. pots..... 8.00 "
Boston " 2½ in. pots..... 5.00 "
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Greenhouse glass, lowest prices. **JOHN-STON GLASS CO.**, Hartford City, Ind.

GLASS—6 x 8, 8 x 10, 10 x 12, 10 x 14, \$2.25 per box. Other sizes at factory prices. **C. N. ROBINSON & BRO.**, Dept. 29, Baltimore, Md.

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Importers and Growers of Orchids.
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HASSALL & CO., Orchid Growers and Raisers, Southgate, London, England. Immense stock of Cattleyas.

PAINTS AND PUTTY

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PANSY AND VERBENA BASKETS

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PETUNIAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
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PEONIES

Peonies. The world's greatest collection. 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

Complete manuals on the Peony, Iris and Phlox. 25 cents each in stamps. C. S. HARRISON, York, Nebraska.

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A. T. Stearns Lumber Co., Boston, Mass.

PHLOX**CLEARING OUT SALE OF HARDY PHLOX, IN VARIETIES**

Including 2,000 F. G. von Larsburg, 3,000 Miss Lingard. Write for information and prices. OLD TOWN NURSERIES, South Natick, Mass.

PIPE AND FITTINGS.

Kroeschell Bros. Co., Chicago.
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"Riverton Special."

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PRIVET

Amoor River Privet, 2 to 3 ft., \$2.00 per 100; \$15.00 per 1000. REYNOLDS NURSERY COMPANY, Winston-Salem, N. C.

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Hardy Roses.
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Robert Scott & Sons, Sharon Hill, Pa.
Agent for Alex. Dickson & Sons,
New Red Rose, Donald Macdonald.

ROSES, CANNAS AND SHRUBS.
THE CONARD & JONES COMPANY,
WEST GROVE, PA.

SASH

STANDARD HOTBED SASH, with cross bar, 85c. each; lots of 25 and over, 80c. each. Satisfaction guaranteed or money refunded. Glass 6 x 8, 8 x 10, 10 x 12 or 10 x 14, \$2.25 per box of 50 sq. ft. C. N. ROBINSON & BRO., Dept. 29, Baltimore, Md.

SCALECIDE

B. G. Pratt Co., New York City.
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SEASONABLE PLANT STOCK

R. Vincent, Jr. & Sons Co., White Marsh, Md.
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SEEDS

Carter's Tested Seeds.
Seeds with a Pedigree.
Boston, Mass., and London, England.
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Joseph Breck & Sons, Boston, Mass.
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J. Bolgiano & Son, Baltimore, Md.
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A. T. Boddington Co., Inc., New York City.
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Chas. Schwake & Co., New York City.
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Michell's Seed House, Philadelphia, Pa.
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W. Atlee Burpee & Co., Philadelphia, Pa.
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R. & J. Farquhar & Co., Boston, Mass.
Gold Medal Cyclamen Seed.
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J. M. Thorburn & Co., New York City.
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Amt. C. Zvolanek, Lompoc, Cal.
Winter Flowering Sweet Pea Seed.
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S. S. Skidelsky & Co., Philadelphia, Pa.
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Kelway & Son, Langport, England.
Seeds, Selected Strains.
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W. E. Marshall & Co., New York City.
Seeds, Plants and Bulbs.
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August Rolker & Sons, New York City.
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Burnett Bros., 98 Chambers St., New York.
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Leonard Seed Co., Chicago, Ill.
Seeds and Seed Service.
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American Bulb Co., Chicago, Ill.
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Thomas J. Grey Co., Boston, Mass.
Seeds, Bulbs, Implements.
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Roman J. Irwin, New York City.
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Fottler, Flisk, Rawson Co., Boston, Mass.
Seeds for the Florist

S. D. Woodruff & Sons, New York City and Orange, Conn.
Garden Seeds.
For page see List of Advertisers.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid baskets always on hand. LAGER & HURRELL, Summit, N. J.

STRAWBERRY PLANTS

Strawberry Plants, \$2.50 per 1000. Catalogue free. BASIL PERRY, Georgetown, Delaware.

SWEET PEA SEED

Amt. C. Zvolanek, Lompoc, Calif.
Gold Medal of Honor Winter Orchid Sweet Peas.
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TREE SURGERY

The Davey Tree Expert Co., 1302 Elm St., Kent, Ohio.
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VASES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

COMET TOMATOES—Fine plants grown from Roney's special forcing strain in sterilized soil. Strong 2 1/4 inch plants, \$2.50 per 100; \$22.50 per 1000. Cash please. J. J. CLAYTON & SON, West Grove, Pa.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
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The John A. Evans Co., Richmond, Ind.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
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WHEAT SHEAVES

H. Bayersdorfer & Co., Philadelphia, Pa.
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WIRED TOOTH PICKS

W. J. Cowee, Berlin, N. Y.
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WIREWORK

Reed & Keller, New York City.
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WILLIAM E. HEILSCHER'S WIRE WORKS, 264 Randolph St., Detroit, Mich.

WHOLESALE FLORISTS**Albany, N. Y.**

Albany Cut Flower Exchange, Albany, N. Y.
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Baltimore

The S. S. Pennock-Meehan Co., Franklin and St. Paul Sts.
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Boston

Welch Bros. Co., 226 Devonshire St.
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Patrick Welch, 262 Devonshire St.
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Welch's, 280-282 Devonshire St.

H. M. Robinson & Co., 32 Otis St. and 2 Winthrop Sq.
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Brooklyn

Wm. H. Kuebler, 28 Willoughby St.
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Buffalo, N. Y.

William F. Kasting Co., 568-570 Washington St.
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Chicago

Poehlmann Bros. Co., Morton Grove, Ill.
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J. A. Budlong, 184 North Wabash Ave.
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Zech & Mann, 30 East Randolph St.
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Detroit

Michigan Cut Flower Exchange, 264-266 Randolph St.
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H. E. Froment, 148 W. 28th St.
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W. F. Sheridan, 133 W. 28th St.
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P. J. Smith, 131 West 28th St.
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Hentz & Nash, 55 and 57 W. 28th St.
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Traendly & Schenck, 436 6th Ave., between 26th and 27th Sts.
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Paul Meconi, 57 West 28th St.
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Woodrow & Marketos, 103 Park Ave.
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Riedel & Meyer, Inc., 49 West 28th St.
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United Cut Flower Co., Inc., 111 W. 28th St.
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Gunther Bros., 110 West 28th St.
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W. R. Siebrecht, 114 West 28th St.
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Herman Weiss, 106 West 28th St.
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L. B. Nason, 116 West 28th St.
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Frank Millang, 55-57 West 26th St.
York City.
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The Beechwood Heights Nurseries, Thos. Young, Jr., Prop., 57 West 28th St.
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Philadelphia

Leo. Niessen Co., 12th and Race Sts.
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Edward Reid, 1619-21 Ranstead St.
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WHOLESALE FLORISTS Philadelphia—Continued

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Philadelphia Wholesale Florist Exchange, 1615 Ranstead St.
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Richmond, Ind.

E. G. Hill Co.
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Rochester, N. Y.

George B. Hart, 24 Stone St.
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Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
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New Offers In This Issue

FANCY LEAVED CALADIUMS.

Henry F. Michell Co., Philadelphia, Pa.
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JAPANESE LILIES.

F. Rynveld & Sons, New York City.
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SCALECIDE.

B. G. Pratt Co., New York City.
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TREE SURGERY.

Davey Tree Expert Co., Kent, Ohio.
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SWAS-TEEKA CANNAS.

Conard & Jones Co., West Grove, Pa.
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TUBEROUS ROOTED BEGONIAS.

S. S. Skidelsky & Co., Philadelphia, Pa.
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TWO ATTRACTIVE OFFERINGS.

S. S. Pennock-Meehan Co., Philadelphia, Pa.
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Plant Propagation, Greenhouse and Nursery Practice

By M. G. KAINS

We have had many inquiries from time to time for a reliable and up-to-date book on plant propagation, but were always at a loss to find any publication that we could recommend. The subject has been dealt with in fragmentary manner only in books that have come to our notice. So it is well that this new work has been issued, especially as it is both comprehensive and practical, and it should meet with a ready sale among plantmen, nurserymen and gardeners. There are nineteen chapters covering in detail topics of germination and longevity of seeds, propagating by buds, layering, cuttings, grafting, etc., fruit tree stocks, clones, etc., and there are eight pages of condensed cultural instructions in tabulated form, covering annuals and perennials from seed, woody plants, evergreens, vines, bulbs and tubers, greenhouse and house plants, ferns, palms, water plants, orchids and cacti. The illustrations are numerous, comprising 213 figures and half-tone plates. There are 322 pages well bound and on heavy paper, teeming with helpful information. It is a book which no cultivator can afford to do without. It is worth many times its price. Copies can be supplied from the office of HORTICULTURE at publisher's price, \$1.50.

Horticulture Publishing Co.

147 SUMMER ST., BOSTON, MASS.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 147 Summer St., Boston.

HELP WANTED

WANTED—Good all-round men for greenhouse work and to fill orders. Must be sober and industrious. Permanent positions and good wages to right men. State age, experience and wages expected in first letter PETER HENDERSON & CO., 390 Arlington Ave., Jersey City, N. J.

GREENHOUSE MAN wanted at Langwater Farms. Must be good grower of carnations, chrysanthemums and pot stock. Apply with references, stating wages expected to R. HODGSON, Langwater Farms, North Easton, Mass.

SALESMEN: Attractive and profitable side line for salesmen, calling on florists, gardeners and private estates. Address "J. J.," care of HORTICULTURE.

SITUATIONS WANTED

POSITION WANTED by a single man, 42, ten years' experience with carnations and bedding stock; not afraid to work. Can help in design and floral work. References. Address "O.," care of HORTICULTURE.

SITUATION WANTED as outside gardener on private estate, by single man who thoroughly understands the business. W. J. DEVERY, Box E, Groton, Conn.

WANTED: A position as foreman in a first class private place; middle aged, married, no children; highest references. A. B. C., HORTICULTURE.

SITUATION WANTED as Head Gardener on private estate. Life's experience in all branches under glass and outside; a successful grower of fruit under glass, stove and greenhouse plants, "mums, carnations; well up in herbaceous and alpine. Nationality, English; married; no family. Good references. Address "F.," care of HORTICULTURE.

FOR SALE

Florist Business For Sale

Four houses filled with Easter stock, bedding plants, carnations, sweet peas and callas. Cottage, barn and garage; 4 acres of rich land; fruit trees and berries; horse, cow and chickens. Close to the seashore resorts of New Jersey; doing a good business the whole year. Will sell for the low price of \$4,500. "A. B.," care HORTICULTURE.

FOR SALE Two greenhouses, one 190 x 28, one 185 x 31; and dwelling house, six rooms with bath, hot and cold water, steam heat, half-acre of land. Address JOSEPH FARRELL, 197 Broadway, Somerville, Mass. Tel. Som. 1517-W.

FOR SALE—About 100 ft. of Lord & Burnham greenhouse gutter; never been used. Fittings for same will sell at 25 per cent. discount. H. E. COOPER, Salem, Ohio, R. D. 1.

FOR SALE TWO (2) GREENHOUSES. One of an area approximating 14,000 sq. ft. of glass, brick stack, heater and piping. The other of an area approximating 1,000 sq. ft. of glass, headhouse 30' x 40', heater and piping.

Write or apply to Superintendent of Buildings and Grounds, CORNELL UNIVERSITY, Ithaca, N. Y.

THE NUT-GROWER

The unique monthly publication which furnishes reliable and interesting up-to-date information regarding the value of pecans and other edible nuts and how to grow them for profit.

Subscription, \$1.00 per year

Sample Copy Free

THE NUT-GROWER

No. 2 Francis St.

WAYCROSS, GA.

In writing to Advertisers kindly mention Horticulture

Est. 1765

Pot Makers for a
Century and a Half**HEWS****STRONG
RED
POROUS****POTS**

Inc. 1904

World's Largest
ManufacturersStandard, Azalea, Bulb, Orchid, Fern, Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.Write for Catalogue
and Discounts**A. H. HEWS & CO., Inc., Cambridge, Mass.**Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.

If you need a boiler in a hurry telephone or telegraph at our expense

KROESCHELL BOILERS

SEND FOR CATALOG

Kroeschell Bros. Co., 466 W. Erie St., Chicago**DURING RECESS.****Detroit Versus Cleveland.**

On Thursday, March 1st, a picked team including Messrs. Streit, Rohaley, Stock, Ernest and Norman Sullivan, Brown, Doemling, Pautke, Klang, Plumb, Ingold and Walters, journeyed to Cleveland to bowl the three remaining games in a series of seven between Cleveland and Detroit for the trophy donated by the Mich. Cut Flower Exchange. After three exciting games the trophy was awarded to Cleveland, Detroit taking only two out of the necessary three games, making a total four to three in favor of Cleveland.

Robt. Rohaley, manager of Mich. Cut Flower Co. and donor of the trophy, was easily the feature bowler of the evening, making many timely and spectacular strikes.

NEW CORPORATIONS.

Elkhart, Ind.—Elkhart Plant & Flower Association, capital stock, \$10,000. Incorporators, Henry Steele and Louis J. Lathrop.

Jamestown, N. Y.—Betts Flower Shop, 205 W. 7th street, capital stock, \$10,000. Incorporators, A. H. Hitchcock, R. N. and C. R. Betts.

Lynn, Mass.—Neilsen Bros. Company, 42 Springvale street, wholesale and retail florists, capital stock, \$5,000. Incorporators, William Christina and Florence Neilsen.

Dallas, Tex.—A severe hail storm struck this section on the night of February 23. Among those who suffered loss from broken greenhouse glass were the Texas Seed and Floral Company, Lang Floral and Nursery Co., and Alex. Miller. H. Wagner at Denison, and Mrs. Dunlap at Ennis were also sufferers.

Feb. 22, 1917.

My Dear Mr. Stewart:

Your editorial in **HORTICULTURE** entitled, "Well Done," gives the best short history of the F. H. A. that could be written. Many thanks for your kindly mention, with hopes that when I serve another 30 years you will be in Boston to write another bit of history.

Yours truly,

JOHN G. ESLER.

Saddle River, N. J.

NEWS NOTES.

Uxbridge, Mass.—A deed has been filed in the registry at Worcester in which Rosa F. Taft, widow of Arthur R. Taft, conveys to three trustees, 35 acres of land to be held in trust as a public park for the use of all the inhabitants of Uxbridge. The gift is in memory of Mrs. Taft's deceased husband, who was always a pioneer in movements for the betterment of Uxbridge. A fund for maintenance accompanies the gift.

Danvers, Mass.—The new classroom and demonstration building, just completed at a cost of \$60,000 for the Essex County Independent Agricultural College here, will be dedicated in April. The structure is one of the finest of its kind in the country. It contains 26 classrooms, a large basement demonstrating room and two office rooms. It is 175 feet long and 70 feet wide.

The building is constructed along the most modern lines and contains automatic fan ventilators, shower baths, etc. The material is red brick and reinforced cement with sandstone trimmings.

The college was founded in 1913 and at present accommodates nearly 300 students. Owing to the great demand for entrance it is believed another large building will be needed before long. A large greenhouse will be erected in the spring.

OBITUARY.**Gust. Knoch.**

On Tuesday, Feb. 27th the well-known florist, Gust. Knoch of Detroit, in a fit of despondency due to ill health, ended his life. The entire Detroit trade extends deepest sympathies to the bereaved widow and children.

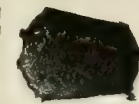
PATENTS GRANTED.

- 1,217,449. Mowing Machine. Harvey L. Hopkins, Chicago, Ill.
- 1,217,782. Irrigating Apparatus. James M. Langford, Mulberry, Fla.
- 1,217,811. Apparatus for the Irrigation of Fields, Gardens, and the Like. Carl Sigfrid Nyberg, Hasselbacken, Mellosa, Sweden.
- 1,217,867. Fruit Picker. Emerich Holdal, San Diego, Cal.
- 1,217,269. Onion Topping Machine. Ephraim Burdick, Cleveland, Ohio.

**GREENHOUSES BUILDING OR CON-
TEMPLATED.**

Council Grove, Kan.—Cleek Floral Co., one house

Walla Walla, Wash.—Blossom Floral Co., one house.

**NON-KINK WOVEN HOSE**

In any length (one piece) with couplings, 15c. per foot. Unequalled at the price.

**Hose Valve, 70c.**

All brass except the hand wheel. Has a removable leather disk which is easily replaced to keep water tight. Stuffing box prevents leaks at stem.

METROPOLITAN MATERIAL CO.

1297-1325 Flushing Ave., Brooklyn, N. Y.

**DREER'S**

Florist Specialties.
New Brand. New Style.
Hose "RIVERTON."
Furnished in lengths up to 500 ft. without seam or joint.

The HOSE for the FLORIST

1/2-inch, per ft., 15 c.
Reel of 500 ft., " 14 c.
2 Reels, 1000 ft., " 14 c.
1/4-inch, " 13 c.
Reels, 500 ft., " 10 c.

Couplings furnished
HENRY A. DREER,
714 Chestnut St.,
PHILADELPHIA, PA.

GLASS CLOTH

A transparent waterproof fabric, guaranteed to generate about the same warmth and light as glazed sash, or money back. For all forcing purposes. Sample 3 x 6 feet. 50c. prepaid.

PLANT FORCERS**TURNER BROS., Bladen, Nebraska****STANDARD FLOWER****POTS**

If your greenhouses are within 500 miles of the Capitol, write us; we can save you money.

W. H. ERNEST

29th & M Sts., Washington, D. C.

The Florists Hail Association rate of insurance from Nov. 1st, 1916 to Nov. 1st, 1917 will be twenty cents per hundred square feet of single thick glass and eight cents per hundred square feet of double thick glass. For particulars address **JOHN G. ESLER, Sec., Saddle River, N. J.**

FOLEY MATERIALS

ARE THE BEST FOR
Iron Frame, Pipe Frame or Wood Frame
GREENHOUSES

Estimate and Sketch Submitted Promptly

THE FOLEY GREENHOUSE MFG. CO.

3275 West 31st Street, - - - - - CHICAGO, ILL.

HOT BED GLASS

BEST BRANDS

LOWEST PRICES

SHARP, PARTRIDGE & CO.

2263 Lumber Street, - - - - - CHICAGO

THE ONLY PERFECT

LIQUID PUTTY MACHINE

WILL LAST A LIFETIME
\$1.25 each

Adjustable—can and frame separate—easily cleaned. Frame all one piece, of malleable iron. More practical and more easily operated than any other.

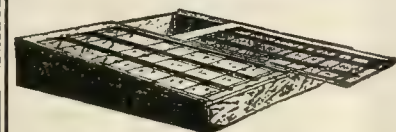
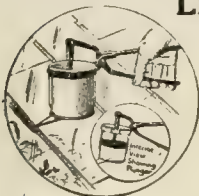
SEAL TIGHT LIQUID PUTTY

\$1.35 per gallon

In 10 gallon lots, \$1.40 per single gallon.

METROPOLITAN MATERIAL CO.

1297-1325 Flushing Ave., BROOKLYN, N. Y.



HOTBED SASH at 80c. each

Made of best grade Gulf cypress.

Glazed Hotbed Sash from \$1.65 up.

Double Light Sash up to \$4.00.

We carry a large stock of all sizes.

Write us for estimate

METROPOLITAN MATERIAL CO.

297-132 Flushing Ave., BROOKLYN, N. Y.

MASTICA

For Greenhouse
Glazing

USE IT NOW

F. O. PIERCE CO.

12W. BROADWAY
NEW YORK



Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.



Evans 20th Century Arm

Most up-to-date arm on the market. Proof that it is better than any other is that others tried to imitate it. Write for our 1916 catalog just out.

JOHN A. EVANS CO.
Richmond, Ind.

WE ARE SPECIALISTS IN

GREENHOUSE GLASS

PAINTS and PUTTY

IROQUOIS WHITE (Semi-Paste).
Most Perfect White Paint Made.

Be sure to get our estimates.

The DWELLE-KAISER Co.

237-251 Elm St., BUFFALO, N. Y.

Dreer's Peerless Glazing Points

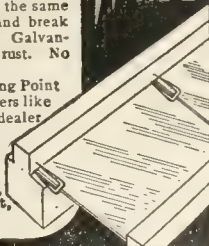
For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts. The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid.
Samples free.

HENRY A. DREER,
714 Chestnut Street,
Philadelphia.

FULL
SIZE
No 2



Use the only shading

E. A. LIPPMAN

6 HIGH STREET

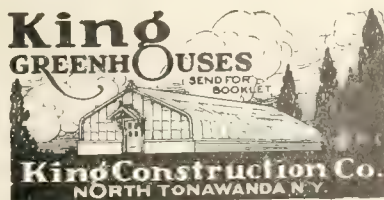
Morristown, New Jersey

Send for Booklets

GET OUR CATALOGUE

On Ventilating Apparatus and Greenhouse Fittings

ADVANCE CO., RICHMOND, IND.



King GREENHOUSES

SEND FOR BOOKLET

King Construction Co.
NORTH TONAWANDA, N. Y.

Duplication Proves Satisfaction



Mr. P. H. Burton of Glenside, Pa., was so highly gratified by the result he achieved with his first Metropolitan Greenhouse, that he specifically instructed us to plan his new one identically the same as the other.

After a whole year of experience with Metropolitan construction, he decided that no change could possibly improve upon it.

His duplication proves his satisfaction. We can do as well for you.

PUT YOUR GREENHOUSE PROBLEMS UP TO US

*We go anywhere in the U. S.
to submit plans and prices.*

METROPOLITAN MATERIAL CO.

Patented Greenhouses.

1297-1325 Flushing Ave., Brooklyn, N. Y.

GLASS

AND

HOT-BED SASHES

Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.

215-217 Havemeyer St., Brooklyn, N. Y.

PATENTS

Trademarks
and Copyrights

Difficult and rejected cases specially solicited. No misleading inducements made to secure business. Over 30 years' active practice. Experienced, personal, conscientious service. Write for terms. Address,

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.



That centre post prevents eave-sag, when the weight of hinged sash drag down on it. No other builder uses it.



This shows Z-bar eave plate in use. It combines plate and drip gutter in one. Strengthens the eave, takes care of the drip without increasing the shade line or adding cumbersome fittings.

Strength

Some Half Iron Frame Points

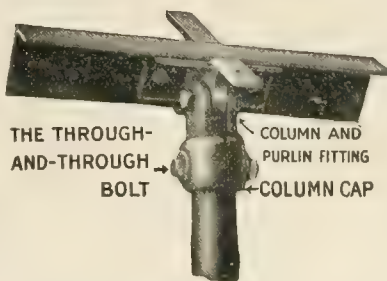
TO prevent the between-posts-sag that always happens with the angle iron plate, when side sash are used in place of stationary sides; we put a small steel channel post between the plate and sill. It is not large enough to be at all noticeable; but amply strong to do its work.

Keeping the eave straight, it prevents much of that vexatious sticking of the sash on the sill.

When the Z-bar plate with its drip gutter attached is used; it is stiffened sufficiently so no centre support is necessary.

So much for our non-sagging plate; now about the purlins and the way they are secured to columns and roof bars.

A special two bolt V-shaped fitting holds the purlin



This shows you the special no-slip-way we fasten the angle purlin to the column. Note the two legs for screwing post to the roof bars.

to the column cap. This cap is bolted through-and-through the columns. It cannot slip off. The purlins are held squarely in place against the bar by two legs. Three screws are used.

Each roof bar is also screwed snug to each purlin, upon which it rests.

There is absolutely no movement of bars away from the purlins which is so often the cause of glass breakage when pipe purlins are used.

Always we have built our Half Iron Frame houses with angle iron purlins.

If they are best for the all iron

frame; we figure they are best for the half iron. All the points in both constructions are pointed out in our Supply Book. Send for one.

Hitchings and Company

NEW YORK
1170 Broadway

BOSTON
49 Federal Street

PHILADELPHIA
40 S. 15th Street

General Offices and Factory, Elizabeth, N. J.

Vol. XXV
No. 11
MAR. 17
1917

HORTICULTURE



Photo by H. T. Desert & Series

Philadelphus coronarius

Published Every Saturday at 147 Summer Street, Boston, Mass.
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NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toil, we ought to blame the culture, not the soil."—*Pope*.

Azaleas

To hold the most forward ones back, place in darkened and very cool quarters, but the roots of azaleas must have water in sufficiency, which may mean somewhat less for those in a cool place than those under regular forcing temperature but always enough to prevent any drying out at the roots. A very cool and shaded place must be found for those too far advanced. There will be little need of hastening azaleas for the great spring holiday, but should there be some plants showing merely swelling buds, then an increase in fire heat and an exposure to the brightest sunshine will likely bring them out in time. An azalea just beginning to show color, or one with buds now quite fluffy and ready to open, will be in full bloom in from ten to fifteen days.

Care of Carnations

Carnations develop the healthiest growth in a night temperature of about 50 and 54 degrees, according to the variety. Much below 50 degrees causes a standstill in growth, which is not at all desirable and in most cases is harmful. With the longer days they will now need more water. It is absolutely necessary now to give air freely in order to keep the foliage from becoming soft and to encourage hard growth. Our old enemy, red spider, will begin to get busy if not looked after sharply, but as we can now use water more freely we can keep them in check. Thrips and green fly will also multiply rapidly if left undisturbed for even a short period. Carnations will stand lots of feeding now, so you can give them a mulch and liquid manure water, too. It is best to cut the flowers early in the morning as they keep better and the pink shades retain their color better.

Flowers for Memorial Day

Spiraea japonica and its various forms should be brought along now. Fifty-five to 60 degrees at night will suit them better than a higher one. For hydrangeas 55 degrees night temperature is to be preferred, but in case they are late give them 10 degrees more for a

time. Spraying overhead on clear days will refresh them. They will take water in great abundance and manure water can be applied two or three times a day until the flowers are well out. It is a hard proposition to hold lilies back where they have been allowed to advance too much. Place them in a house where they can have plenty of ventilation with a good syringing on bright days. Fumigate weekly for aphids. Benches containing ten weeks' stocks, gladioli, snapdragons, candy-tuft and other Memorial Day crops, should be scratched over at least once a week and have all weeds removed.

Sweet Peas for Outside

The best place for sweet peas is one fully exposed to sun and air which would be for the rows to run north and south. A good deep loam well enriched with plenty of well-rotted cow manure and plowed deep, with a surface dressing of bone meal and hardwood ashes makes an ideal place. Make a furrow or trench from 6 to 8 inches deep. Sow the seed thickly in the bottom and cover with two inches of soil pressing down firmly. When they come up thin out to about two inches apart. The balance of the soil should be filled into the trench as they grow. Where you have them in pots, do not give any artificial heat. The ideal place is a cold frame. Under these conditions they will have a natural start and will make fine stock to plant out later.

Reminders

Winter flowering geraniums must be cut over and the tops inserted as cuttings for next year's stock.

Soot water is excellent as a change from the ordinary manure water for roses, carnations and the majority of plants.

Pinch out all the side shoots on tuberose bulbs before potting or planting. This will add to the strength of the main stem.

When repotting the young cyclamens avoid covering the corms deeply as this checks growth and frequently cripples the young leaves.

Next Week:—Adiantums; Bulb Stock; Camellias; Cattlys and Laelias; Easter Lilies; Reminders.

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HORTICULTURE

VOL. XXV

MARCH 17, 1917

NO. 11

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Oppressive legislation

We sympathize with the florists of Ohio and elsewhere who are facing so much expense and trouble on account of the provisions of the licensed fireman laws. The florists of Massachusetts were threatened with a similar imposition a few years ago, but by vigorous action and by protests at legislative committee hearings

they succeeded in securing exemption for greenhouse establishments from the provisions of the proposed law. It might be well for florists in other states where the subject of steam boiler laws is being agitated to procure copies of the Massachusetts reports and enactments. The present laws here are reasonable and appear to have worked to general satisfaction thus far. A copy of the letter signed by the florists of Ohio and sent to members of their state legislature, which will be found on another page of this paper, sets forth the hardship imposed upon greenhouse establishments by the present Ohio law very distinctly and is well worthy of general perusal and thoughtful attention.

Gardeners all

The Philadelphia North American devoted nearly half a page of editorial space in its issue of March 6 to a consideration of the gardening movement, under the title of "No idle acres this year." It is an eloquent and convincing plea for the utilization of every available acre or part acre in Pennsylvania for the growing of grain and vegetables and making productive the millions of acres of unimproved soil throughout the nation—a plea for "a garden in every back yard in city or town, even though the space thus cultivated may not be larger than an ordinary room;" for the conquering of waste and "for making every vacant city lot and every crooked corner in the country a producer of food." This is but one of hundreds of newspapers in every part of our country that under stress of the present emergency are doing splendid service in the most beneficial popular movement of our times. In the words of Leonard Barron in his address at Boston last Tuesday, the back-to-the-soil campaign now in progress is "the greatest boost and liverer that has ever come to gardening in America."

The March exhibitions

By the time these lines are in type two of the big flower shows for which elaborate preparations have been in progress for months will have opened their doors. That the New York "International" will be a stupendous success, unless some direful national crisis should suddenly intervene, is a foregone conclusion. The several years of experience up to the present time are a great asset to the New York management. There is a boundless amount of material with which to make the show and the income from the trade department and the souvenir program is the biggest yet. As to St. Louis, the financial outcome is perhaps not so certain but the prospect is said to be very encouraging and superlative quality is assured. All friends of progressive horticulture will most earnestly wish and hope for St. Louis' success in this ambitious enterprise on which \$10,000 is said to have been spent, for a winner now will indicate a splendid triumph for the National Flower Show one year hence. Before our next issue goes to press the National Rose Festival at Philadelphia and the Boston Spring Show advertised as "a corner of paradise" will be in full swing. Ornamental horticulture certainly has its innings this month.

The next issues of HORTICULTURE will be chock full of flower show news; also the advertising pages will be chock full of interesting spring trade offerings. Intelligent readers, such as HORTICULTURE boasts, will be deeply interested in both and advertising firms wishing to build up trade with this class should take quick advantage of the rare opportunity now presented. If you have anything to offer, come out of your obscurity and tell these people about it.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Plants for Summer Roses

There may be several benches not doing extra well now, and may happen to be planted to varieties that would do well in the summer. With this to work on it would be advisable to dry the benches off now, and cut them down as soon as this is done, then start them up again when they are pruned or transplanted. Before beginning to dry the plants off a real good watering should be given, and the houses run a little warmer than usual at night to open as many of the buds as possible, after which the temperature can be gradually reduced to 45 at night, with 70 in the daytime until the plants dry out fairly well, after which the temperature can be allowed to drop down even lower, both in the daytime and at night. As soon as they are real dry and begin to lose their leaves, begin the cutting down. This should not be done with hedge shears, but with a pair of pruning shears, making the cuts so that the eyes will be left where they are most needed. If the soil is very old and worn out it will pay to take the plants out and set them into the walks. This work will have to be done carefully so that the roots will not be torn all to pieces when they are being dug out. The old soil can then be wheeled out, the benches thoroughly cleaned and whitewashed and new soil brought in, which should contain plenty of manure, as the plants will take it up before winter comes. However, be very careful to have the plants well dried off before they are disturbed in any way. If they are not dry enough, there will be trouble when it comes to starting them again, as they will come up weak and sickly as a rule. After they are planted, being careful to firm the soil around the roots well, they should receive a real good watering to settle the soil around them, after which they will be watered only around the plant until they have more growth and roots. After the watering it will be necessary to see that they are sprayed five or six times a day—sprayed, not syringed or watered. This will mean that the water is broken up as fine as is possible, and thrown over the plants so as to moisten all the wood without wetting the soil to any extent. To do this right it will be necessary to move right along with the hose, walking fast, and using good pressure, in order to get as fine a spray as possible. As soon as the young shoots begin to push out be careful to see that the plants are wet enough when they are sprayed or syringed, or the leaves are likely to burn. Then when the buds begin to appear, disbud them at once, so that they will go right on growing without the least check. As more and more growth comes on give more and more water, being careful to watch the roots, which will show how much of the soil around each plant should be wet. Water about half an inch more than the

tips of the roots. This will not keep the roots back and at the same time the soil will not be too wet, and getting sour.

Care of the Walks

Walks are an important part of the greenhouse and should not be neglected, and as soon as they get wet and slippery, a little sand should be applied, filling in all the low places with ashes first. A wet slippery walk is dangerous, and if a man has to watch his feet when he is watering or syringing, he cannot pay proper attention to his work and chances are there will be some dry spots here and there or that spider will be appearing where it is not expected. It will be healthier not only for the rose plants but also for the men to have the walks dry, and keeping the plants and the men contented is a great part of the rose growing game.

Disbudding Potted Beauties

Go over all the potted stock at least once a week and make sure that all the buds are pinched out as they should be. This applies especially to American Beauties, which will suffer more than any other variety if they are neglected in this respect. Be sure to take the buds with one leaf or at least down to a good leaf. A poor leaf has only three leaflets and is found right near the bud. If this were left on with the eye at its stem the growth that would come from it would amount to very little as another bud would form almost at once. If the bud is taken where it should be the growth that will come will shoot up a little way before another bud forms, thus making the plant a little taller. Do not allow the buds to remain until they are well formed, as the joints that would form after the buds are taken would be very hard, making it a difficult matter for the sap to get through to the upper part of the plant.

Philadelphus coronarius

Philadelphus coronarius, commonly known as Syringa or Mock Orange, is a very old favorite in gardens, having been introduced from southern Europe in 1596. It is still one of the most beautiful of all summer flowering shrubs and, as will be seen from the cover illustration of this issue, is capable of making a very handsome specimen when planted where sufficient space can be given to permit of unrestricted growth. The *Philadelphus* family has received considerable attention from the hybridists during recent years and there are now many hybrids and varieties of great value which, taken collectively, form one of the most beautiful and useful groups of all hardy flowering shrubs.

Arthur E. Thatcher

Bar Harbor, Me.

CHICAGO NOVELTY FLOWER SHOW

The following exhibits were shown at the Novelty Flower Show under the auspices of the Chicago Florists' Club, held at the New Morrison Hotel, Thursday afternoon and evening, March 8,

C. C. Pollworth Co., Milwaukee, Wis.—New Chrysanthemum Mrs. C. C. Pollworth. Chicago Flower Growers' Association—Ever-blooming pussy willows.

Basset & Washburn—New Red Carnation Belle Washburn; White Killarney Roses.

W. H. Amling Co., Haywood, Ill.—Red Carnation Imperator.

J. D. Thompson Carnation Co., Joliet, Ill.—Carnation Superb.

University of Illinois—Seedling carnation No. 1-12; vari-colored Schizanthus.

P. Ollinger, New Castle, Ind.—Red Carnation Radium.

Alois Frey, Crown Point, Ind.—Rainbow Freesias; the new Freesia Amethyst.

Vaughan's Seed Store—Cannas Fire Bird, Golden Bird and Yellow King Humbert.

South Park Floral Co., New Castle, Ind.—New (corsage) Rose Rosalie.

A. F. Amling Co.—Rose Ophelia.

George Weinboer—Rose Mrs. Chas. Russell, grown by French & Salm.

Zeck & Mann—Mignonette.

Wieland & Risch, Evanston—Basket of New Rose Champ Wieland.

Holton & Hunkel, Milwaukee, Wis.—Milwaukee's new rose (Richmond & Anton Rivoire) not named.

Peter Pearson—Bulbous display consisting of Tulips Flaming, Kaiser Kroon, La Reine, Couronne d'Or, Urr Back, McKinley, Prosperine, Primrose Queen; Jonquills Emperor, Victoria; Poetaz Vanity; Hyacinths Gertrude, Gigantea, Lady Derby, La Victory, La Innocence; Crocus President Lincoln, Yellow Giant; Snowdrops; Rose George Elgar.

August Jurgens—Poetens King George; Narcissus Spurius, Maximus, Minimus, Beauty, King Alfred, Glory of Leiden.

Frank Oechslein—Display of Easter plants consisting of Tulips Murillo, Pink Beauty, Couronne d'Or, Urr Back, Cravoise Royal, Rose Luissant, McKinley, Titian; Daffodil Double Von Sion; Narcissus Victoria; Hyacinth La Innocence, Gertrude, Nimrod, General Von der Heyden, Queen of the Blues, Grape Hyacinth; Snowdrops; Crocus, four varieties; Lilac; Funkia undulata media var.; Erica melanthra; Rhododendron Pink Pearl; Genista racemosus; Cineraria stellata; Marguerites; Easter Lilies; Acacia longifolia; Azalea Van der Cruyssen.

Rose Golden Gem, seedling (Harry Kirk & Lady Hillingdon), grown by Edward Towill and exhibited by S. S. Pennock-Meehan Co., Philadelphia, Pa., arrived too late for the show.

The Novelty Day scored a great success and called forth some very gratifying notices in the local papers. Such gatherings are not only of value to those who are able to be present and examine the novelties, but through the trade papers, florists all over the country learn whether the new plants and cut flowers are making good or otherwise. This exhibit, staged in a couple of hours, was viewed by hundreds of people.

A bloom of the Imperator grown by Wm. Amling is as perfect as a flower can be at this writing, which is four days after the exhibit, and proves that that carnation has keeping qualities not adversely affected by its immense size. The collection of bulb stock both cut and in pans was exceptional. It was not a flower show in the usual sense but an informal grouping of the novelties in a hotel with a splendid opportunity to talk them over and compare notes.

Ninety-two guests—more than twice the number than had been anticipated—were present at the banquet and it

proved a very happy occasion. Fred Lautenschlager, as toastmaster, did the honors in his usual happy manner and made all feel at ease by his cordial welcome. Philip J. Foley, who built the greenhouses at the University of Ill. was naturally selected to welcome the fourteen young men from the department of Floriculture, who had come with Prof. Dorner to the banquet and exhibit. Prof. Dorner responded by telling of the good work being done at the "U" and invited florists to bring their problems to them. President Amling, who was able to be with the club for the first time since his election, then greeted the members and guests and named the committee on awards, after which all adjourned to inspect the exhibits. A business session followed and lasted till a late hour.

On Friday and Saturday Prof. Dorner and the University students visited the wholesale cut flower market, then Vaughan's greenhouses at Western Springs, Basset & Washburn's at Gregg's Station, Ill., Poehlmann Bros., at Morton Grove, Ill., Peter Reinberg's, H. N. Burns and Frank Oechslein's in which establishments they studied the various phases of cut flower and plant culture. Mr. Dorner expressed himself as much pleased with what they had seen.

AN OUTLAW BIRD.

To the Editor, HORTICULTURE:

Dear Sir:—Regarding your note in HORTICULTURE of March 3, "Courting Retribution," in which you express shocked surprise at the quotation in the Gardeners' Chronicle of London, which reads, "As the buds begin to swell keep a sharp lookout for birds and either trap or shoot them"—which you consider cold blooded and ignorant advice. To the gardening fraternity of the U. S., your remarks are well founded. The plural (birds), as used by the writer whom you criticize, I think is very unfortunate, as it is very misleading. "Birds" I am sure means the bullfinch, which during the early spring months feeds entirely on the buds of fruit trees. Thousands of dollars of damage could be done by a pair of these birds in a few hours if left alone, denuding whole plantations of gooseberry bushes, varying their diet on the buds of plums and later on with the apples. This bird during the summer feeds entirely on seeds of all kinds and I venture to say would not tend to reduce the bill for insecticides in any way. I can assure you the English gardener well understands the value of bird life and is very keen on all matters for their protection, although he must cover all small fruit with nets if he would gather any. For many years also the government has enacted drastic laws for bird preservation, and severe penalties are inflicted on law breakers in this respect, but the bullfinch is one exception to the rule.

Morristown, N. J.

S. GOLDING.

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March 22.

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CLUBS AND SOCIETIES

AMERICAN ROSE SOCIETY.

The Executive Committee met in Philadelphia on March 7th at 2 P. M. The minutes of the last meeting were read, and the roses presented for registration which had been referred to a committee, were ordered registered and published.

Edward Towill, Roslyn, Pa., registered a new seedling rose:

"Golden Gem," a cross of Lady Hillingdon and H. Kirk; color golden yellow; strong stem and free bloomer.

A. N. Pierson, Inc., Cromwell, Conn., registered three rose novelties to be disseminated in 1918, as follows:

Mrs. Belmont Tiffany. (Hybrid Tea) A sport from Sunburst. Color, golden yellow shading to apricot orange at the base of the petals, the whole suffused in delicate pink—a distinct and glorified Sunburst.

Mrs. Charles Bell. (Hybrid Tea) A sport from Radiance. Color, light or shell-pink on a salmon shaded background. Superior in growth to Radiance, being equally vigorous but more robust in habit.

Elizabeth Zeigler. (Wichuriana Hybrid) A sport from Dorothy Perkins, but quite distinct. Color, deep rose-pink. Equally vigorous and free in flowering.

E. G. Hill Co., Richmond, Ind., registered:

Columbia. A large habited upright grower with large size foliage, producing long stiff stems and bearing a big flower of pink which deepens as the flower matures.

Double Ophelia. Very similar to the parent in everything save the fullness of the flower; this variety having twice as many petals as the parent; very clear and brilliant in color.

Rose Premier. May be described as a Mrs. Russell, of very easy culture and magnificent in size, form and foliage, and with a perfectly erect stem; deep rose pink.

Mary Hill. Of Sunburst type, improved in habit, foliage and growth, with immense bud and flower of cream color with deep orange center.

A communication was received from Portland, Ore., in regard to the Rose Test Garden, and the resolution as adopted at the February meeting is:

Resolved, That the application made by the Portland Association, National Rose Test Garden, be hereby accepted, and that the Executive Committee of the American Rose Society does hereby officially designate Portland, Ore., as the site for the official rose test garden of the Pacific Northwest, and as a committee representing the American Rose Society, the following named gentlemen are appointed to fill the position: J. A. Currey, 1943 N. 13th St., Portland, Ore.; A. J. Clark, 287 Morrison St., Portland, Ore.; Alfred Tucker, 376 N. 32nd St., Portland, Ore.

A committee was appointed to revise the rules for registration of new roses and to prepare a uniform form for registration purposes. The committee appointed was J. Horace McFarland, Geo. C. Thomas, Jr., and Wallace R. Pierson.

The list of gentlemen accepting the position of judges was read, and the following designations were made:—

Judges to report at noon on March 20th.
Group of one hundred cut roses—J. H. Dunlop, Toronto, Ont., Can.; Philip Breitmeyer, Detroit, Mich.; Patrick Welch, Boston, Mass.

For the Fifty class—Frank H. Traendly, New York City; George Asmus, Chicago, Ill.; Eugene Dailledouze, Brooklyn, N. Y.

For the Twenty-five class—Fred. Burkl, Pittsburgh, Pa.; F. C. W. Brown, Cleveland, O.; S. A. Anderson, Buffalo, N. Y.

For Plants—A. B. Cartledge, Philadelphia,

Meetings Next Week

Monday, March 19.

Detroit Florists' Club, Bemb Floral Hall, Detroit, Mich.

Houston Florists' Club Chamber of Commerce Rooms, Houston, Tex.
New Jersey Floricultural Society, Orange, N. J.

Tuesday, March 20.

Gardeners' and Florists' Club of Ontario, St. George's Hall, Toronto, Can.

Minnesota State Florists' Association, Minneapolis, Minn.

Pennsylvania Horticultural Society, Horticultural Hall, Philadelphia, Pa.

Wednesday, March 21.

Rhode Island Horticultural Society, Public Library, Providence, R. I.
Tarrytown Horticultural Society, Tarrytown, N. Y.

Friday, March 23.

Connecticut Horticultural Society, County Bldg., Hartford, Conn.

Monmouth County Horticultural Society, Red Bank, N. J.

Pasadena Horticultural Society, Pasadena, Calif.

People's Park Cottage Gardeners' Association, Paterson, N. J.

Saturday, March 24.

Dobbs' Ferry Gardeners' Association, Dobbs' Ferry, N. Y.

Pa.; Admiral Aaron Ward, Roslyn, N. Y.; J. H. Small, Washington, D. C.

For exhibit by private growers on Wednesday, March 21st—Alex. B. Scott, Sharon Hill, Pa.; J. P. Habermehl, Philadelphia, Pa.; Geo. Morrison, Baltimore, Md.

For display of cut roses by commercial growers on Thursday, March 22nd—A. B. Cartledge, Philadelphia, Pa.; Philip Breitmeyer, Detroit, Mich.; J. H. Dunlop, Toronto, Ont.

L. J. Reuter was appointed a committee on behalf of the American Rose Society to perfect arrangements in the matter of an outdoor rose show to be held July 4 at Newport, R. I.

Staging of Roses.

The American Rose Society at the National Rose Festival to be held in Philadelphia, Pa., on March 20, 21, 22 and 23, in their final schedule show that all exhibits of commercial cut flowers and plants will be staged at 12 o'clock noon on Tuesday, March 20; exhibits by private growers of cut roses to be staged Wednesday, March 21, and the displays of cut roses covering 200 square feet of space and to contain not less than 500 nor more than 1,000 blooms, will be staged Thursday, March 22. The 1st prize will be \$250.00, 2nd prize \$150.00 and the 3rd prize \$100.00.

BENJAMIN HAMMOND, Sec'y.

An American rose garden, 1,200 square feet, will be the feature exhibit. A lake, eighteen feet long and eight feet wide will be in the middle of the garden. A kneeling Venus will appear in the centre of the lake in the act of plucking water lilies. Other plants and flowers that grow in water will be seen. Around the lake will be a path of grass so laid that the floor will be entirely hidden. The outside measurements of the rose garden will be forty by thirty feet.

NEW YORK FLORISTS' CLUB.

The monthly meeting on Monday evening, March 13, was well attended, there being upwards of 175 members present. Seventeen new members were proposed. C. B. Weathered as chairman of the flower show committee reported that all final arrangements of the exhibition were completed, and that the prospects now were that this coming show would surpass all others previously held in New York. Secretary Young reported that all trade space had been sold and that he was now compelled to refuse late applicants for space. The souvenir catalogue was now in the printer's hands and the advertising in this catalogue amounts to nearly \$4,000. He stated further that entries for all competitive classes were also now refused, space being now taken up for these classes, being more than enough to pack the building to the limit.

Manager Herrington reported that at the present time he was at his wits end as to how he could possibly care for the heavy entry list that had been made by the growers and that he felt that it would take until Saturday for the show to be in proper "apple pie" order, and that no doubt several exhibits would have to be re-arranged after the opening day, as possibilities might present themselves for the general improvement of the show. The dinner committee reported that over 300 tickets had already been sold and applications for tickets were still coming. This was Rose Night, but on account of the approaching exhibition and the Rose Festival at Philadelphia entries were few, although very meritorious. A vase of twelve blooms of Hadley from P. J. Smith, grown by A. S. Burns, Jr., of Spring Valley, was considered the finest ever seen in New York and had all the members present astounded. It received a cultural certificate.

Robert Simpson showed his No. 40, a sport from Jonkeer J. L. Mock, which scored 86 points and is entitled to a certificate. In shape of flower this rose strongly resembles the old favorite, La France. Foliage is quite distinct from J. J. L. Mock. The color seems almost the same as Kil-larney Queen and much lighter than J. J. L. Mock. Sunburst Sport, exhibited by Pennock-Meehan Co., was awarded thanks of the club; this sport seemed to lack substance in flower. foliage and stem was good. A large vase of Mrs. Wm. Randolph Hearst, shown by A. N. Pierson, Cromwell, Conn., received vote of thanks, also yellow seedling rose Golden Gem, from Edw. Towill, Roslyn, Pa.

A sport from Enchantress Carnation was exhibited by A. Demeusy, Flatbush. The committee asked to see this variety again. A vase of Matchless mignonette, by Weeber & Don, received a cultural certificate. P. Buerlein, of Elmhurst, exhibited tulips and narcissus Glory of Sassenheim and was awarded a vote of thanks.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The meeting of this club on Tuesday evening, March 13, was made memorable for all who were present by a scholarly address on "Looking Backward and Looking Forward," by Leonard Barron, editor of the Garden Magazine, Garden City, N. Y. Mr. Barron was at his best and his lecture as well as his remarks in the discussion which followed, furnished a rare treat for his audience.

Looking backward, Mr. Barron referred to Boston as having dominated the development of gardening in America as we know it today, and said it was fair to assume that development will still continue along parallel lines. Speaking of the literature of gardening in the period from 1799 to 1914, he showed by chart how gardening had flourished in times of peace and prosperity and had invariably lagged in periods of turmoil and distress, and further that of the established horticultural literature of today fully one-half had come into existence since 1890. During this time the nurseryman, florist and gardener had successively dominated the gardening writings, and now there is evidence that we are on the verge of a new era when people in other walks than the horticultural industries will take precedence. He laid much stress on the rapidly growing interest of the amateur consumer, who is bound to become a bigger factor than ever before.

He predicted that foreign plants would soon exercise a greatly enlarged influence on our park and garden plantings, also that the present market interest in alpine material may be expected to show an immediate and unprecedented advance. Professional florists and gardeners should keep their eye on the great activity and enormous influence being exerted by the amateur garden clubs which are being rapidly multiplied all over the country, and not be content to drift along and have but a minor part in the coming development of a typical American style of gardening of which we get only a glimmering as yet.

Flower shows and present methods of exploiting them also came in for comment and suggestion. Mr. Barron thought that the tendency had been to make them merely competitive, to the disadvantage of their educational features, and called attention to the great Temple Shows in London which are conducted without a prize list. He believed that young students now being trained at the agricultural colleges would soon wield a strong influence in commercial horticulture, especially in the realm of foresight and insight and experimentation with scientific exactness.

Discussion following Mr. Barron's address was lively and aggressive, and at times exceedingly witty and entertaining. The war-horses of debate and repartee, of which this club has a notable contingent, found Mr. Barron a well-qualified and quick-witted match and there was a half-hour of rare fun for the audience. The consensus of opinion, however, was that the gardeners and florists have plenty to do in the future if they are to hold their own in progressive horticulture in com-

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parison with the people of the garden clubs, also that the condition of the farming lands all over the country is far from creditable to the American people.

The reports of James Donald and Robert Cameron on the visit to the Davey Institute at Kent, Ohio, from which they had just returned, were full of interest and entertainment, and much discussion, both serious and humorous, ensued so that it was well on to eleven P. M. before the listeners began to thin out. Both gentlemen were most enthusiastic as to what they had seen and the lavish hospitality they had enjoyed. They could hardly find words to fully express their admiration of the wonderful system and organization in force at this unique institution. The thoroughness of the training given the young men impressed them strongly. They were fully convinced that the Davey organization is doing a work that measures up to the highest efficiency and is accomplishing much to restore tree surgery to its proper place. The remarkable ability for organization and system shown by M. L. Davey, son of the founder, and present chief executive, impressed the speakers very forcibly, and if, perchance, they were at all skeptical when they started regarding the work of the Davey Institute, they both certainly came home most effectively reformed and cured.

The only exhibit was a group of *Lachenalia tricolor* in pans, unusually well bloomed, by Charles Cooper of Brookline.

FLORISTS' CLUB OF WASHINGTON

All of the 1916 officers of The Florists' Club of Washington, D. C., were re-elected at the meeting of the club held Tuesday evening, March 13. This meeting had been postponed from the previous week because of the inaugural activities. The hold-over officers are R. Lloyd Jenkins, president; Adolph Gude, vice-president; Clarence L. Linz, secretary, and William F. Gude, treasurer. The directors were also all re-elected.

There was a display of Marie Le-graye lilacs by I. Wessel Staalmann, grown by Mr. Staalmann at Oakton, Va. It was declared by those present to be as fine as has ever been produced in the United States and equal to the foreign-grown stock. They are well branched, spikes twelve inches long and are very floriferous.

NEW YORK FEDERATION

There will be a meeting of the New York Federation of Horticultural Societies and Floral Clubs in the Secretary's office at the New York Flower Show, in Grand Central Palace, at 4 P. M., Monday, March 19th. The various affiliated societies are requested to appoint delegates to attend this meeting, for important matters concerning legislation regarding a Horticultural Building at the State Fair Grounds in Syracuse, are to be considered.

E. A. WHITE, Secy.

MOUNT KISCO HORTICULTURAL SOCIETY.

The first regular meeting of this newly organized society was held in St. Francis Hall on the night of Jan. 16th. The officers are John J. Connolly, president; David Gordon, vice-president; A. G. Ross, corresponding secretary; W. S. MacDonald, financial secretary, and Thomas Morris, treasurer. The business was chiefly the making of committees. Mr. Connolly read a paper on Mushrooms. He is one of the most successful mushroom growers in this section. W. C. Rickards, of Thorburn's, was present and gave us a few words and wished us all kinds of success. Every one present paid up and became charter members. At a special meeting on the 26th the several committees were heard from, and there was some lively discussions. Four women were enrolled as active members. Mr. Connolly offered a prize of \$10.00 for the member receiving the most points for exhibits for 1917. Mr. Gordon offered the sum of \$8.00 for a second and third. The next meeting, on Feb. 27th, was well attended. Mr. Connolly staged a nice exhibit of flowers and mushrooms. Meetings will be held regularly on the second Tuesday of every month at 7.30 P. M. At our next meeting on March 13th there will be a lecture on Poultry, by Mr. Sewell, manager of Hammond's immense poultry plant at Dellwood Farm.

A. G. Ross, Secy.

MAINE STATE FLORISTS' SOCIETY

The Maine State Florists' Society held its third annual meeting and flower show at Orono, during Farmers' Week (Mar. 5-10). The show lasted two days (Mar. 8-9) and was attended by many out of town visitors. Prof. A. H. Nehrling, of the Department of Floriculture, Massachusetts Agricultural College, gave an illustrated lecture on the "Development of Floriculture," and also conducted a Round Table in the afternoon. The rest of the special florists' program held March 8 was as follows:

"Sweet Peas"—J. H. Stalford, Bar Harbor, Maine.

"New and Desirable Herbaceous Perennials"—A. E. Thatcher, Mt. Desert Nurseries, Bar Harbor, Maine.

Among the exhibitors the following deserve special mention:

J. H. Stalford, Bar Harbor—Tulips, freesias and narcissus.

E. Saunders, Lewiston—Carnations, narcissus and hyacinths.

M. A. Clark, Ellsworth—Freesias, narcissus, tulips and hyacinths.

Willis E. Hamilton, Belfast—Chrysanthemums, narcissus, tulips and hyacinths.

Wm. Butler, Brunswick—Violets.

RICHARD T. MULLER, Secy.

At the annual banquet of the Hartford (Conn.) Market Gardeners' Association on March 7. President Beach, of the Conn. Agricultural College, told the marketmen that while Connecticut had a productive power of feeding 1,500,000 people, it produced only one-quarter of the food its people eat. He cited Belgium as a comparison. With one-half the area and unfavorable for agriculture, Belgium produces all its people need.

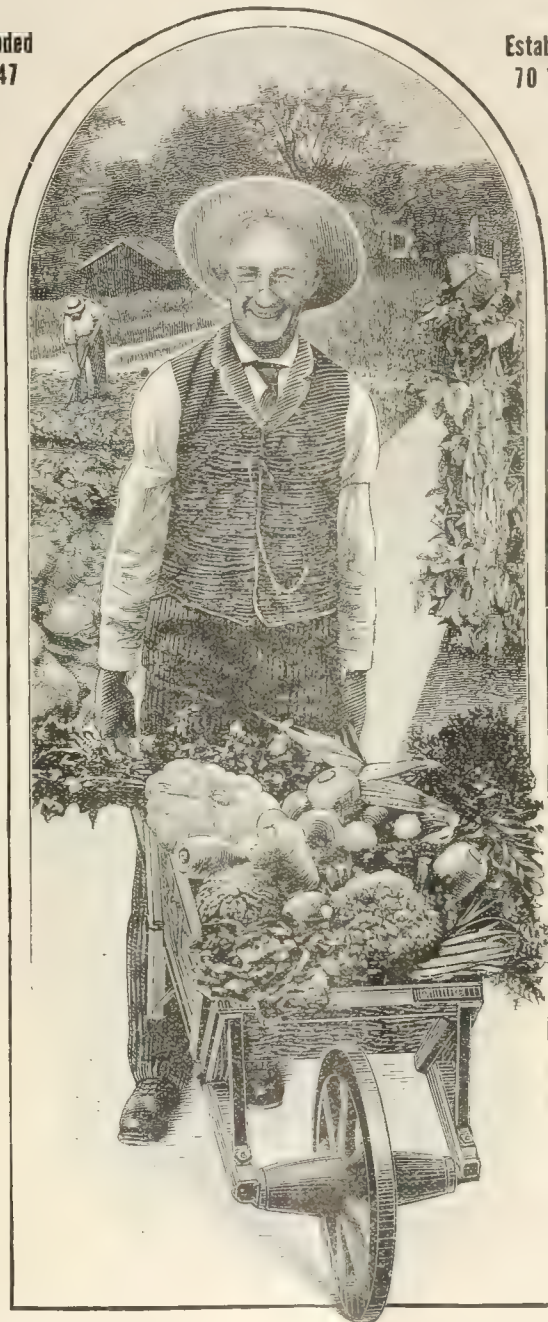
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CLUB AND SOCIETY NOTES.

At the meeting of the New London (Conn.) Horticultural Society on March 8 P. J. vanBaarda, of Joseph Breck & Sons, Boston, delivered an address on Spring Flowering Bulbs.

The spring exhibit of the Worcester County (Mass.) Horticultural Society was opened on March 8 in Horticultural hall with one of the most effective displays of spring flowers and shrubs seen in the hall for some time. Among the important exhibits were those of E. W. Breed, H. F. A. Lange, Dr. Homer Gage and Harry I. Randall.

At the meeting of the Connecticut Horticultural Society on March 10 a rare exhibition of hybrid cinerarias was made by John F. Huss and Samuel Gordon, South Manchester.

The first named exhibit was awarded a cultural certificate, and a first-class certificate for the collection. Mrs. Wilhelmina Seliger forwarded a paper on the Culture of Cineraria. The society presented Mrs. Seliger with a specimen plant through Mr. Hollister.

At the close of the meeting the June Flower Show committee convened and discussed ways and means for promoting the show. The proceeds will be donated to the Union for Home Work. A. Dixon, Secy.

There was a fine display on the exhibition tables and an exceptionally good attendance at the monthly meeting of the Westchester and Fairfield Horticultural Society, in Greenwich, Conn., Friday evening, March 9th. The judges made the following awards: Special prizes offered by Mr. Scheepers. Display of bulbous flowers, 1st, Wm. Whitton; 2nd, Robt. Grunnert. Very high commendation to Wm. Graham for Cineraria stellata. High commendation to W. J. Seeley for Primula obconica; Thos. Aitchison for cinerarias; F. Lagerstorm for stocks; Wm. Dhitton for sweet peas; Robt. Grunnert for carnations; John Forbes for roses and P. W. Popp for stocks. The thanks of the society was awarded to Wm. Graham for sweet peas; James Linane for primula, and Thos. Aitchison for cinerarias. The monthly prizes were won by Wm. Whitton, 1st; Robt. Grunnert, 2nd, and P. W. Popp, 3rd. ALEX CLARKSON, Cor. Secy.

The monthly meeting of the Stamford (Conn.) Horticultural Society was held Friday evening, March 9, in their new quarters, Moose Hall, with about 75 members present. A very interesting paper on the culture of Herbaceous Perennials was given by H. Wild, president of the society. Prizes were awarded for exhibits as follows:

A. Alins, 1st, for two vases of carnations; A. Wynn, 2d. Mr. Goldes, cultural certificate for Enchantress Supreme and Harlowarden Sport. P. H. Donovans, carnations, mushrooms and freesias, highly commended. A. Wynn, Gerbera Jamesoni, Leptosyne maritima carnations and stocks highly commended. J. Foster, Cattleya Trianae, highly commended. A. Pederson, tulips and sweet peas, highly commended. A. Alins, group of miscellaneous plants, highly commended. A vote of thanks was given to A. Wynn for Primula malacoides and Antirrhinum Queen Victoria. J. Foster for Shawyer roses, C. F. Wagner, mushrooms, A. Pederson, seedling begonia, Olaf Johnson, seedling antirrhinums, G. Cannon, lawn seed, A. Alins Marechal Niel roses, and A. S. Hunwick for Carnation Red Wing.

F. S. HARTWRIGHT, Cor. Secy.

TWO EASTER SUBJECTS.

Easily grown and available in various sizes to suit all purses the two plants here figured are popular every-



Cytisus racemosus

where for Easter sales. They are or should be a part of every florists' springtime stock. *Cytisus racemosus*, usually sold under the name of Genista, is sometimes accused of dropping its flowers prematurely after being taken



Paris Daisy, Select type, large flowering. from the greenhouse, but if grown cool and properly "hardened off" it will keep as satisfactorily as most of the

other Easter plants. We are indebted to A. L. Miller, of Jamaica, N. Y., for the photographs.

SOME USEFUL GARDEN CHRYSANTHEMUMS

Editor of HORTICULTURE:

Dear Sir:—In Mr. Rothe's Chrysanthemum maximum article of March 3rd issue of HORTICULTURE he mentions the Arctic Daisy as "meriting far more attention," also, "more or less distinct varieties are offered by leading growers abroad."

What interests the flower growers mostly is something new and distinct that has been tried, and proven at home to be, as represented. Of these, in the Chrysanthemum maximum family are: Chrysanthemum Rosy Gem, a light pink, and Chrysanthemum Autumn Glory, a white one, both from Korea. These are perfectly hardy, and for mass effects in the garden or for cutting when flowers are scarce, are unexcelled. Once better known, the Arctic Daisy will find itself displaced by the freedom and late blooming qualities of these former. So far, Farquhar's are the only ones to handle it, not being grown from seed.

A non-seeder that several American growers list is Chrysanthemum leucanthemum flore pleno, a double white-flowering one of English origin, blooming in midsummer. Being only 18-20 inches high with flowers 2-3 inches in diameter, it is invaluable for massing as well as for cutting and design work.

Several large firms in this country try out most of the new things offered by foreign growers only to turn most of them down, as either not doing well in our climate or not worth the candle. If the florists and gardeners would stick more to stock offered by our leading growers, who do the expensive experimenting, satisfaction would be the rule more generally than the exception. CHARLES A. MATHES.

St. Paul, Minn.

The regular meeting of the Holyoke and Northampton Florists' and Gardeners' Club was held March 6th, with John Lamont, superintendent of the J. A. Skinner estate, S. Hadley, Mass. The chief business transacted was the adoption of a revised constitution and by-laws. James Whiting gave a practical talk on Chrysanthemums. H. E. Downer exhibited Narcissus Lucifer and White Lady, large spikes of Hyacinths in variety and Lilium grandiflorum.

The 4 Big Flower Shows, March, 1917

Sun. 11	Mon. 12	Tue. 13	Wed. 14	Thur. 15	Fri. 16	Sat. 17
				NEW YORK ST. LOUIS	NEW YORK ST. LOUIS	NEW YORK* ST. LOUIS
18 NEW YORK	19 NEW YORK	20 NEW YORK PHILA.	21 NEW YORK PHILA. BOSTON	22 NEW YORK PHILA. BOSTON	23 PHILA. BOSTON	24 BOSTON
25 ST. LOUIS	26	27	28	29	30	31
BOSTON						

* Banquet.

RYNVELD BROTHERS

Wholesale Bulb Growers and Exporters

We specialize in Darwin, May-Flowering, Breeder and Rembrandt Tulips

Our new list ready, Free on Application

Lisse, Holland

N. Y. Address, 44 Whitehall Street

REMEMBER

If its a HARDY PERENNIAL or so-called OLD FASHION FLOWER worth growing, we have it in one shape and another the year around. We have the largest stock in this country, all Made in America, and our prices are reasonable.

Why say more here. Send for our Wholesale price list of varieties and benefit from the opportunities this affords you.

We are also headquarters in this country for ROCK & WALL PLANTS.

Our motto: "Maximum Quality, Minimum Cost."

PALISADES NURSERIES, Inc. SPARKILL, N. Y. R. W. CLUCAS, Mgr.

SURPLUS STOCK OF EVERGREENS, SHRUBS AND PERENNIALS OF HIGH QUALITY

Section of land must be cleared, and while quantities last we will quote **ROCK BOTTOM PRICES.** Name items and quantities that interest you.

- | | |
|---|--|
| 500 White Spruce, 4-9 ft. | 1000 Spiraea opulifolia, 3-4 ft. |
| 1000 Koster's Blue Spruce, 2-4 ft. | 500 Common Hazel, 3-4 ft. |
| 1000 Colorado Blue Spruce, 3-5 ft. | 500 Clethra alnifolia, 2-3 ft. |
| 1500 Norway Spruce, 3-6 ft. | 2000 Lycium barbarum, 3 yrs. |
| 1000 Fraser's Fir, 3-5 ft. | 500 Prunus Pumila, 2-3 ft. |
| 200 Balsam Fir, 6-8 ft. | 500 Sumach, Glabra, 4 ft. |
| 500 Red Cedar, 3-4 ft. | 500 Sumach typhina, 4 ft. |
| 500 Hemlocks, 3 ft. | 1000 Spiraea salicifolia, 3-4 ft. |
| 500 Jap. Yew, (Upright), 3 yrs. | 500 Spiraea tomentosa, 2-3 ft. |
| 500 Variegated Euonymus radicans, 3 yrs. | 500 Viburnum lantana, 3-4 ft. |
| 500 Acer ginnale, 4-5 ft. | 500 Viburnum Bush Cranberry, 3-4 ft. |
| 6000 Carolina Poplars, 5-9 ft. | 500 Viburnum Common Snowball, 3-4 ft. |
| 5000 Lombardy Poplars, 5-7 ft. | 500 Symphoricarpos vulgaris, 2-3 ft. |
| 500 European Larch, 7-8 ft. | 2000 Bitter-Sweet (Celastrus), 3 yrs. |
| 300 Balsam Poplars, 7-8 ft. | 2000 Trumpet Vine (Tecoma), 3 yrs. |
| 300 Golden Hop Trees, 3-4 ft. | 2000 Sweet Briers, 3 ft. |
| 1000 White Willows, 4 ft. | 500 Rose Hiawatha, 2 yrs. |
| 8000 Laurel, or Glass Willows, 3-5 ft. | 500 Achillea, The Pearl, 2 yrs. |
| 500 Regal Willows (Regalis), 3-4 ft. | 2000 Shasta Daisies, 2 yrs. |
| 500 Jap. Crab (P. Baccata), 4-5 ft. | 1000 White Iris Siberica, 2 yrs. |
| 2000 Golden-Barked Willows, 4 ft. | 1000 Blue Iris Siberica, 2 yrs. |
| 400 Bird Cherry (Padus), 3-4 ft. | 500 Monarda (Balm), 2 yrs. |
| 500 Hornbeam, 3 ft. | 500 Astilbe Japonica, clumps. |
| 2000 Red-Barked Cornel, or Dogwood, 3-4 ft. | 10000 Vinca minor, 2 yrs. |
| 2000 Jap. Quince, 2 ft. | 500 Ajuga reptans, 2 yrs. |
| 2000 Scotch Broom, 2-3 ft. | 500 Boltonia asteroides, 2 yrs. |
| 500 Broom (tinctoria), 2 ft. | 500 Hemerocallis, mixed, 2 yrs. |
| 1500 Bush Honeysuckles, 3-4 ft. | 5000 Pachysandra, 2 yrs. |
| 1000 Dwarf Syringa, 2 ft. | 500 Ranunculus (Buttercup), 2 yrs. |
| 1000 Buckthorn, Catharticus, 3-4 ft. | 500 Sedum spect. (Variegated leaf), 2 yrs. |
| 500 Buckthorn, frangula, 3 ft. | 3000 Hydrangea P. G. 18 to 24 inches, bushy and very strong. |
| 2000 Button Bush, 18-24 in. | |

THE NEW ENGLAND NURSERIES CO., BEDFORD, MASS.

IF in need of RELIABLE NURSERY STOCK

that is well grown, well dug and well packed

Send to the **BAY STATE NURSERIES**

Wholesale and Retail

NORTH ABINGTON, MASS.

THE National Nurseryman

The oldest and best established journal for nurserymen. Circulation among the trade only. Published monthly. Subscription price, \$1.50 per year. Foreign subscriptions, \$2.00 per year. In advance. Sample copy free upon application from those in the trade enclosing their business card.

National Nurseryman Pub. Co., Inc.
HATBORO, PA.

HOLLANDNURSERIES

BEST HARDY RHODODENDRONS, AZALEAS, CONIFERS, CLEMATIS, H. P. ROSES, SHRUBS AND HERBACEOUS PLANTS.

P. OUWERKERK, 216 Jane St. Weehawken Heights
P. O. No. 1, Hoboken N. J.

BOBBINK & ATKINS

**Nurserymen, Florists
and Planters**

RUTHERFORD, NEW JERSEY

Little Ads. That Bring Big Returns

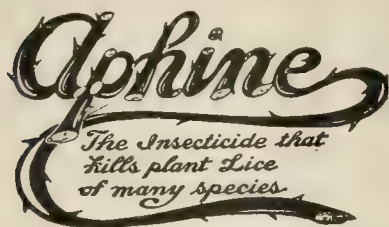
Little Ads. in our Classified Buyers' Directory bring big returns to both advertiser and purchaser.

Anything wanted by florists, gardeners, park and cemetery superintendents, etc., can be sold through this medium.

THEY COST ONLY ONE CENT
A WORD UNDISPLAYED

Don't fail to read over these Ads. in each issue and you may find one or more that will prove profitable to you.

When writing to Advertisers kindly mention Horticulture



The Recognized Standard Insecticide.
A spray remedy for green, black, white fly, thrips and soft scale.

Quart, \$1.00; Gallon, \$4.50.

NIKOTIANA

A 12% nicotine solution properly diluted for fumigating or vaporizing.

Quart, \$1.50; Gallon, \$4.50.

Until further notice shipments on our products FUNGINE, VERMINE and SCALINE will be subject to conditions of the chemical market.

Prompt shipments can be guaranteed on APHINE and NIKOTIANA.

Aphine Manufacturing Co.
MADISON, N. J.



Save your plants and trees. Just the thing for greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrips, Red Spider, Black and Green Fly, Mites, Ants, etc., without injury to plants and without odor. Used according to direction, our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pets. Excellent as a wash for dogs and other animals. Relieves mange. Dilute with water 30 to 50 parts.

½ Pint, 25c.; Pint, 40c.; Quart, 75c.;
½ Gallon, \$1.25; Gallon, \$2; 5 Gallon Can, \$9; 10 Gallon Can, \$17.50.
Directions on package.

LEMON OIL COMPANY

Dept. S. 420 W. Lexington St., Baltimore, Md.



Quarts, 55c. Gallons, \$1.65
Fives, \$6.50

Try with 24 parts water. Often effective weaker.

LOOK FOR THE IVY LEAF TRADE MARK.

Ask your dealer or write

EASTERN CHEMICAL CO., BOSTON

When writing to advertisers kindly mention **HORTICULTURE**.



NIKOTEEN

For Spraying

APHIS PUNK

For Fumigating

Ask Your Dealer For It.

NICOTINE MFG. CO.
ST. LOUIS

Obituary

Mrs. W. H. Foddy.

Mrs. Cora Foddy, wife of William H. Foddy, a florist, died from pneumonia on Wednesday, March 14, at her home, 8 Seventh Avenue, Brooklyn, N. Y., in her sixty-second year.

Voorhees Tappen.

New Brunswick, N. J.—Voorhees Tappen, son of Erastus H. Tappen, of Bonhamtown, was burned to death in his father's greenhouse Tuesday night, when he accidentally fell into the furnace pit. His clothing was set afire by a lantern he carried.

William Lackey.

William Lackey, caretaker of Firenze, the country estate of Daniel Guggenheim, was shot and instantly killed in Sycamore avenue, Long Beach, N. J., Saturday, March 10. He and Joseph Winstock, a greenhouse worker, had seen two men lurking about the place, and found them behind a hedge. "There they are," Lackey said to Winstock. "Shoot," one of the men cried, and two shots were fired. The slayers escaped in the darkness. Lackey belonged to Temple Lodge 65, F. and A. M., of Westport, Conn.

Isaac D. Sailer.

Isaac D. Sailer, a Philadelphian, well-known to the older generation of horticulturists, died at Orlando, Fla., March 6th. He first came into prominence some thirty years ago from having sold to the American Florist Co. the nucleus of the present elaborate publication, known as the Florists' Directory. For many years he was a familiar figure at club meetings, flower shows and conventions. Twenty-five years ago he was in the cigar business and among other favorite brands introduced the Bon Silene, a fragrant whiff which men like Ned Lonsdale, Bill Harris, Robert Craig, Jim Griffin and John Burton used to swear by. He has been retired from business for a good many years and spent most of his winters in the south.

John E. Kelly.

John E. Kelly, whose death occurred last week at Newport, R. I., was a native of County Galway, Ireland, and came to this country during the Civil war, working on Long Island before removing to Newport. He was employed by the late Seth Bateman and at Middleboro, when the railroad between Newport and Boston was first laid out. In 1865 he was engaged as gardener by the owners of the property at the end of Coggeshall avenue, near Bailey's beach, and was continued by later owners, Peleg Hall and Benjamin Thaw, on the same estate, a period of 52 years, having been employed by Mr. Thaw for the past 18 years. He is survived by four children—former Alderman Michael F. Kelly, John H. A. Kelly and Miss Katherine A. Kelly, of Newport, and Andrew J. Kelly, of Boston.

A GREAT CALAMITY.

A tornado swept over a portion of Indiana on Sunday afternoon and left in its wake over a score of dead and many times that number of severely wounded, while the loss of property aggregates into the millions. New-castle is noted for its large ranges of greenhouses, lying directly in its path, and where a few days ago acres of glass were covering roses just in the height of their season, and growers were anticipating the Easter harvest time, now a large portion lies in complete ruin.

F. J. Benthey is the heaviest loser and his entire plant of 110,000 sq. ft. of glass is probably a total loss. Reports are incomplete on account of broken wires, but when great factories are blown down like leaves there can be little chance for greenhouses to escape. Another range in its path was the Heller plant, known as the South Park Floral Co., which specialized in American Beauties. The houses of Wm. Dittman lay a little to one side and the loss is not so heavy, which the Olinger range three miles to the east and the Peter Wieland place two miles west, escaped almost entirely. The stock from F. J. Benthey's range is sold by his father in Kennicott Bros., Chicago, and they have the sympathy of the trade in their loss.

PUBLICATION RECEIVED.

CASPAR'S VETERINARY GUIDE, by S. Blake Willsden. Treating all diseases of the Cow, Horse, Sheep, Swine and Poultry. Contains many original illustrations and colored anatomical pictures, useful tables, etc. This new book is quite a novelty, giving anatomical pictures of the various farm animals in colors with the names of all parts, together with description of all Diseases, Treatment and Prescription. The author's name is a guarantee that this is done in an excellent manner. The printing is the best and we consider this Guide a great help to farmers and others. Price 50c., C. N. Casper Co., Publishers, Milwaukee, Wis., or HORTICULTURE Pub. Co., Boston.

USE

WIZARD

TRADE BRAND MARK

CONCENTRATED PULVERIZED

MANURE

Pulverized or Shredded

Cattle Manure

Pulverized

Sheep Manure

The Florists' standard of uniform high quality for over ten years. Specify: **WIZARD BRAND** in your Supply House order, or write us direct for prices and freight rates.

THE PULVERIZED MANURE CO.

SPRING BULBS

TUBEROUS-ROOTED BEGONIAS

SINGLE-FLOWERING

Crimson, Scarlet, Pure White, Rose, Light Pink, Yellow, Salmon, Orange, Copper or Mixed, all colors.

Doz. 100 1000

Bulbs, 1 1/4 in. diam. and up \$0.35 \$2.25 \$20.00
Bulbs, 1 1/2 in. diam. and up40 2.75 25.00

DOUBLE-FLOWERING

Crimson, Scarlet, Rose, Pure White, Copper-Bronze, Salmon, Yellow, Orange, Light Pink, or Mixed, all colors.

Doz. 100 1000

Bulbs, 1 1/4 in. diam. and up \$0.50 \$3.50 \$30.00
Bulbs, 1 1/2 in. diam. and up65 4.00 35.00

CALADIUM ESCULENTUM

(Elephant's Ear)

Full cases at 1000 Rate

	Doz.	100	1000
5/7 200 in a case	\$0.30	\$2.25	\$20.00
7/9 100 in a case	.50	3.50	30.00
9/11 75 in a case	.75	5.50	50.00
11/12 50 in a case	1.10	8.00	75.00
13/up 25 in a case	1.60	12.00	

FANCY-LEAVED CALADIUMS

The English collection containing twelve varieties of the very finest transparent leaf sorts. Extra fine bulbs. \$2.25 per doz., \$15.00 per 100.

Brazilian Collection of 12 varieties. \$1.50 per doz., \$12.00 per 100.

Mixed Brazilian Varieties. \$1.25 per doz., \$10.00 per 100.

CINNAMON VINE

Bulbs. 6 to 10 in., 30c. per doz., \$2.00 per 100, \$18.00 per 1000.

MADEIRA VINES

Large bulbs, \$2.00 per 100, \$18.00 per 1000.

TUBEROSES

Double Pearl. Bulbs, 4 to 6 in. in circumference.....\$1.00 \$7.50



GLADIOLUS

	Doz.	100	1000
America. 1st size. Shell pink	\$0.30	\$1.75	15.00
Augusta. White lavender throat.....	.30	1.75	15.00
Baron Hulot. Indigo blue	.35	2.25	20.00
Brenchleyensis. Vermilion scarlet.....	.25	1.50	12.50
Halley. Salmon pink to bright red	.25	1.50	12.50
Hyde Park. White, feathered rose.....	.50	3.50	30.00
Mrs. Francis King. Vermilion scarlet.....	.30	1.75	15.00
Panama. An improved America	.40	3.00	25.00
Pink Perfection. Rose pink	.60	4.00	35.00
Princess. Rich crimson, extra large.....	.40	3.00	25.00

CANNAS, Dormant Roots

Packed 250 in a Case
Full cases at 1000 rate

Red-Flowering Cannas, Green Foliage

	100	1000
BEAUTE POITEVINE. 3 1/2 ft.	2.00	17.50
BLACK PRINCE. 4 ft.	2.75	25.00
CHARLES HENDERSON. 4 ft.	2.00	17.50
CHEROKEE. 4 ft.	1.50	14.00
CRIMSON BEDDER. 3 ft.	2.75	25.00
DUKE OF MARLBORO. 4 1/2 ft.	1.75	15.00
FURST BISMARCK. 4 ft.	1.65	15.00
CHANCELOT BULOW. 3 ft.	1.65	15.00
J. D. EISELE. 5 ft.	1.65	15.00
LOUISIANA. 6 ft.	1.65	15.00
METEOR. 5 ft.	12.00	100.00
MEPHISTO. 3 1/2 ft.	1.65	15.00
MUSAFOLIA. 7 ft.	1.65	15.00
PRESIDENT CLEVELAND. 3 ft.	2.00	17.50
PRES. MEYER. 4 ft.	2.00	17.50
PILLAR OF FIRE. 6 ft.	2.00	17.50
TARRYTOWN. 3 1/2 ft.	2.00	17.50

Bronze-Leaved Red-Flowering Cannas

DAVID HARUM. 3 1/2 ft. 2.75 25.00

Yellow and Yellow Spotted

JOHANNA KANZLEITER. 4 ft.	1.65	15.00
GUSTAV GUMPPER. 4 ft.	3.75	35.00
RICHARD WALLACE. 4 1/2 ft.	1.65	15.00
GLADIATOR. 5 ft.	1.65	15.00
AUSTRIA. 6 ft.	1.65	15.00

Orange Shades

MRS. KATE GRAY. 6 ft.	1.65	15.00
INDIANA. 6 ft.	1.65	15.00

Yellow-Edged and Gold-Edged Cannas

AMERICA. 5 ft.	1.35	12.00
ALLEMANNA. 4 to 5 ft.	1.35	12.00
DUKE OF YORK. 5 ft.	2.75	25.00
GLADIO-FLORA. 3 1/2 ft.	1.65	15.00
ITALIA. 4 1/2 ft.	1.65	15.00
JEAN TISSOT. 5 ft.	1.65	15.00
MAD. CROZY. 5 ft.	2.25	20.00
SOUV. de A. CROZY. 4 ft.	2.25	20.00

Pink-Flowering Cannas

LOUISE. 5 ft.	2.00	17.50
MLLE. BERAT. 4 1/2 ft.	2.00	17.50
VENUS. 3 1/2 ft.	2.00	17.50
SHENANDOAH. 6 ft.	1.65	15.00

Arthur T. Boddington Co., Inc., 128 Chambers Street, New York City

CATALOGUES RECEIVED.

Bungalow Gardens, Netcong, N. J.—List of Vegetable and Flower Seeds.

Framingham Nurseries, Framingham, Mass.—Trade Price List for Spring, 1917.

J. S. Griffing, Flemington and Cutchogue, N. J.—1917 Catalogue of Dahlias and Gladioli.

F. & F. Nurseries, Springfield, N. J.—Trade List of "Quality First" Nursery Stock.

F. H. De Witt & Co., Wooster, Ohio.—Geraniums and Pelargoniums, Selected Varieties.

J. F. Noll & Co., Newark, N. J.—Catalogue of Seeds, Bulbs and Garden Requisites. Covers in colors.

Lynch Nursery Company, Inc., Menlo Park, Cal.—Catalogue of Chrysanthemums, Carnations and Bedding Plants for 1917.

Vaughan's Seed Store, New York City—General Catalogue for 1917. A complete list fully illustrated. Covers in colors.

W. W. Johnson & Son, Ltd., Boston, England—1917 Wholesale Trade Catalogue of Vegetable, Flower, Farm Seeds, Sweet Peas and Potatoes. An exceptional catalogue—heavy paper, elegant illustrations, etc., and listing many interesting novelties and specialties in a very attractive manner.

Arthur T. Boddington Co., Inc., New York City—Wholesale Catalogue of Seeds, Bulbs, Plants and Sundries for Florists and Market Gardeners, January to June, 1917. Choice Florists' Seeds. Re-selected Bulbs and Tubers for spring planting are here listed in variety, as well as many other specialties that every grower should have.

H. & J. Farquhar & Co., Boston—Garden Annual for 1917.—A 176-page catalogue which in our judgment is

the best ever issued by this advancing house. Hardy trees and shrubs of recent introduction are specially prominent and the department of decorative greenhouse plants has been enlarged. Many new illustrations are shown. Cover picture shows Rambler Rose arches blooming in the Hartford Rose Gardens.

Important for Rose Exhibitors.

We have discovered that on the Entry Form for the National Rose Festival in Philadelphia it is stated that March 21st is the date for staging the commercial classes of cut roses. This is an error, as will be seen by perusal of the printed program. These will be staged at 12 o'clock noon on the 20th inst.

We wish to state that we have been very well pleased with the results that we have obtained from our advertisement with you.

Very truly yours,

G. P. READ, INC.

New York, March 10, 1917.

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Kirby B. White, Detroit, Mich.; First Vice-President, F. W. Bolgiano, Washington, D. C.; Second Vice-President, L. L. Olds, Madison, Wis.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.—Convention at Detroit, June 19, 1917.

To Practice on Government Seeds.

The following ingenious advice appears in a recent issue of the Stamford (Conn.) Advocate:

This is the season of the year when your Congressman gives away free seed. Those of you who are thinking of trying your hands—also your backs and your patience—at amateur gardening would do well to bear that fact in mind. Just drop a line to Congressman Hill or one of the Senators from Connecticut, with a request for garden seed, and, if the request is not responded to quickly, take the matter up with C. Milton Fessenden or another local Republican leader, and they will be able to "fix you up."

The amateur-garden business stuff is one thing on paper and yet again another thing when you transfer your efforts as an agriculturist to the soil. You have a lot to learn, and you may be in for a lot of disappointment before you achieve satisfactory results. Hence it may be a good idea to practice with seed that you do not pay for directly.

Once you have acquired mastery of the soil, you may desire to branch out in lines of agriculture the government has not provided free seed for. That will take some time. Take it from amateurs who have been through the mill, it's not going to be any "mere recreation," if you do the thing right. Do not wait too long before applying for seed and, when you have the seed, do not wait too long before planting it. Most vegetables can go into the ground in April, even earlier. The results obtained from planting as late as June are apt to be poor.

Local seed dealers should get acquainted with the Advocate man. He evidently means well but needs enlightenment.

One Week's Imports.

Imports at the port of New York, of horticultural material, for the week ending March 2d, were recorded as follows:

Bulbs—France, \$165; Netherlands, \$67; England, \$34.

Plants—France, \$8,850; England, \$782; Scotland, \$35; Japan, \$103.

Red clover seed—France, \$25,951.

Other clover seed—England, \$1,066.

Grass seed—France, \$35; Ireland, \$10,953.

Other seeds—France, \$419; Italy, \$996; Netherlands, \$109; Spain, \$5,530; Scotland, \$2,482; British India, \$4,707; Bermuda, \$75; Hongkong, \$124; Japan, \$981.

To Expedite Seed Deliveries.

Carriers have been directed, through the Car Service Committee, to make a general exemption from all embargoes of seeds, and urgent efforts are being made to secure adequate supply of empty cars to provide for their transportation.

Wherever cars are seriously delayed by reason of accumulations or on account of other causes notify Francis Fisher Kane, United States Attorney, Eastern District of Pennsylvania, Philadelphia, Pa., giving name of consignor, consignee, point of origin, and car numbers and initials and the matter

will be promptly taken up with the carriers to secure expedited movement.

C. E. KENDEL,

Secy. Am. Seed Trade Asso.

RAILROAD RESPONSIBILITY.

The responsibility of railroads for damage to perishable goods from exposure to heat or cold, and from delays in notifying consignees of arrival of such shipments, is involved in the appeal of the New Orleans, Mobile, and Chicago Railroad Company to the United States Supreme Court for a review of the decision of the lower courts awarding judgment in the sum of \$313 to members of the McCallum, Miss., Truck Growers' Association. The award was to cover damage to a carload of sweet potatoes shipped in 1912 to New Orleans. The shippers entered a claim of \$1,000 punitive damages. This was denied by the lower courts. The railroad company claimed that the bill of lading exempted it from damage by heat or cold and that such damage was inherent in the nature of the shipment. They also contested the claim because it had not been filed within thirty days as provided for in the bill of lading. The award was based on the finding of the court that the railroad was negligent in failing to notify consignees of the arrival of the shipment.

GREENHOUSES BUILDING OR CONTEMPLATED.

Attalla, Ala.—Keller Bros., range of houses.

Medford, Mass.—Peter Federzini, house 30x100.

Elmira Heights, N. Y.—D. R. Mains, house 15x50.

We inadvertently gave the date of the next convention of the American Seed Trade Association incorrectly last week. The date as fixed is June 19th to 21st inclusive.

SEEDS, BULBS, PLANTS

AND

Florists' Necessities

AMERICAN BULB CO.

172 N. Wabash Ave., Chicago, Ill.



SEEDS for the FLORIST

ASTERS QUEEN of the MARKET.

The best extra early variety, large, double flowers, on long stems, in colors: Crimson, Dark Blue, Light Blue, Rose Peach Blossom, White.

Trade Packet, 20c., Oz., 75c.

Sweet Peas, Cyclamen, Primulas, Lily of the Valley, from Our Own Cold Storage Plant.

Our Trade List Mailed on Application.

FOTTLER, FISKE, RAWSON CO., THE SEED STORE BOSTON
Faneuil Hall Square

"Seeds with a Lineage" All Varieties
Thoroughly tested at our trial grounds, Raynes
Park, London, England. Send for Catalogue
CARTERS TESTED SEEDS, Inc., 166 Chamber of
Commerce Bldg., Boston, Mass.

MICHELL'S CANNA ROOTS

Our Canna Roots are extra strong, with plenty of eyes, are clean and true to name. We offer home grown stock at the following reduced rates:

	Color	100	1000
DR. ACKERNECHT,	Red	\$5.00	\$40.00
GENT'L MERKEL,	Scarlet		
and Orange		3.25	30.00
GLADIATOR,	Yellow and		
Red		3.00	25.00
KATE F. DEEMER,	Yellow		
and Red		4.00	35.00
MAROS,	Cream	4.00	35.00
METEOR,	Red	8.25	75.00
MUSAFOLIA (Foliage	variety)	2.50	20.00
PINK BEAUTY OF HUN-			
GARIA,	Pink	7.00	60.00
QUEEN CHARLOTTE,	Red		
and Gold		3.00	25.00

Also BEGONIAS, CALADIUMS ES-
CULENTUM and Fancy Leaved, DAH-
LIAS, GLADIOLUS TUBEROSSES, etc.

SEND FOR WHOLESALE CATA-
LOGUE OF BULBS, SEEDS AND
SUPPLIES IF YOU HAVEN'T A
COPY.

HENRY F. MICHELL CO.
518 Market St., PHILADELPHIA

PIN MONEY MUSHROOM SPAWN

8 lb. for \$1.00

Directions Included

WM. ELLIOTT & SONS
42 Vesey St., New York

JAP. LILIES

F. RYNVELD & SONS
25 West Broadway - New York

BULB STOCK

DWARF DOUBLE PEARL TUBE-ROSES. Special prices on application.

CALLADIUM ESCULENTUM BULBS.

LILIUM MULTIFLORUM, 7 to 9, 9 to 10 and 10 to 11. Attractive prices on application.

LILIUM FORMOSUM, 7 to 9, 9 to 10 and 10 to 11. (Black stem.)

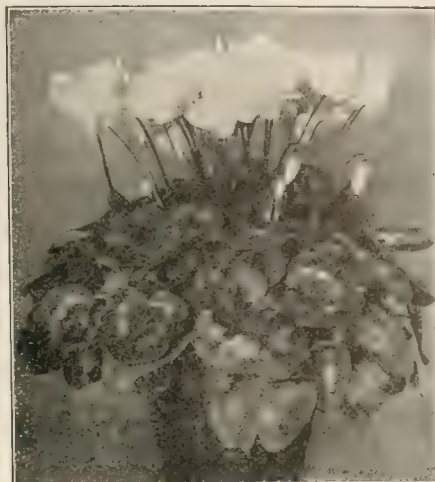
Please tell us how many you can use and we shall make prices accordingly.

Selected strains of Ageratum, Alyssum, Aster, Begonia Erfordi, Calendula Meteor, Prince of Orange, Candytuft, Celosia, Centaurea, Cobaea scandens, Cosmos, Gypsophila, Lobelia, Petunia, and Verbena. Special prices on the above on application.

J. M. THORBURN & CO.

53 Barclay Street
NEW YORK CITY

FARQUHAR'S GOLD MEDAL



CYCLAMEN

Awarded the Gold Medal of the Massachusetts Horticultural Society.

Strong plants in 2 1/4 inch pots, for delivery in April.

\$10.00 per 100

R. & J. FARQUHAR & CO., Boston, Mass.

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SPECIALIZE IN

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(personally selected strains)

WHOLESALE ONLY

Write for Special Prices, Spot or Forward

Only Address, LANGPORT, Eng

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Careful Seed Growers For
99 Years

Send for Our 1917 Wholesale Prices
To Florists and Market Gardeners
BALTIMORE, MD.

Tuberous Rooted Begonias

STRONG STOCK.

	100	1000
" Mixed "	2.50	22.50
Double, Separate colors	4.00	35.00
" Mixed "	3.50	30.00

S. S. SKIDELSKY & CO.

1004 Lincoln Bldg. Philadelphia, Pa.

My new Price List of

WINTER-ORCHID-FLOWERING SWEET
PEA SEED

Has been mailed. If you have not received a copy, send me postal. Part of new crop will be ready early in July.

ANT. C. ZVOLANEK

Sweet Pea Ranch Lompoc, Cal.

ROBERT DYSART

CERTIFIED PUBLIC ACCOUNTANT

Simple methods of correct accounting
especially adapted for florists' use.

BOOKS BALANCED AND ADJUSTED.

40 STATE ST. BOSTON
Telephone Main 56.

LEONARD'S SEEDS

and SEED SERVICE

FOR SALE BY

LEONARD SEED COMPANY, Chicago, Ill.

LILIUM GIGANTEUM

NEW CROP NOW READY.

	Per 100	Per 1000
7 to 9 in. (300 bulbs to case)...	\$5.50	\$50.00
8 to 9 in. (250 bulbs to case)...	7.00	65.00
8 to 10 in. (225 bulbs to case)...	9.00	80.00
9 to 10 in. (200 bulbs to case)...	10.00	95.00

A. HENDERSON & CO.

211 N. State St., Chicago.

Burpee's Seeds PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLAN
FOR PROFIT

THOMAS J. GREY COMPANY

SEEDS, BULBS AND IMPLEMENTS
WHOLESALE AND RETAIL.

Reselected Strains in Seeds.
Improved styles in Implements.
Catalogue upon application.

16 So. Market Street
BOSTON, MASS

BURNETT BROTHERS

Importers and Growers of

SEEDS, BULBS, PLANTS, &c.

98 Chambers Street, New York

ROMAN J. IRWIN

108 West 28th St., NEW YORK

SPECIAL OFFER

LILIUM FORMOSUM

8/11, 225 to a case.....	\$8.00 per 1000
9/10, 200 to a case.....	85.00 per 1000
11/13, 100 to a case.....	15.00 per case
LILIUM FORMOSUM—Black Stem	
8/10, 200 to a case.....	\$8.00 per 1000
9/10, 180 to a case.....	90.00 per 1000
11/13, 100 to a case.....	16.00 per case

Write for Complete Stock Circular.
SATISFACTION GUARANTEED.

ORDER NOW

New crop flower and vegetable seeds.
Begonia and Gladiolus Bulbs. 1917
Catalogue on application.

JOSEPH BRECK & SONS' CORP.

47-54 North Market St., Boston, Mass.

W. E. MARSHALL & CO. SEEDS, PLANTS AND BULBS Horticultural Sundries

166 W. 23rd St., NEW YORK

GARDEN SEED

BEEF, CARROT, PARSNIP, RADISH and
GARDEN PEA SEED in variety; also other
items of the short crop of this past season,
as well as a full line of Garden Seeds, will
be quoted you upon application to

S. D. WOODRUFF & SONS

82 Dev St., NEW YORK and ORANGE, CONN.

ALEX. McCONNELL

611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

*Cost of Cabling Foreign Deliveries
Must be prepaid*

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.

Penn. The Florist

"The Telegraph Florist"

Member of Florists' Telegraph Delivery

124 TREMONT ST.
BOSTON

FOR

KANSAS CITY

Transfer Your Orders to

SAMUEL MURRAY

1017 Grand Avenue

Members Florists' Telegraph Delivery

Orders for NEW YORK.
Write or Phone to

MAX SCHLING

22 West 59th St.
Adjoining Plaza Hotel

Best Florists in the States as
References.

EUROPEAN ORDERS EXECUTED

Members of the Florists'
Telegraph Delivery.

Established 1874

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FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address Dardsflor.

DAVID CLARKE'S SONS

Deliver orders from any part of the country to
New York City

Or OUT-GOING STEAMERS

Write or Telegraph

2139-2141 Broadway, - New York
Telephone 1852-1853 Columbus

Of Interest to Retail Florists

NEW FLOWER STORES.

Ponce City, Okla.—A. Kaner.

Mellenville, N. Y.—Gifford Anderson.

Newport, Ky.—David Cable, 705 Monmouth street.

Buffalo, N. Y.—Lenox Flower Shop. Delaware avenue.

New York, N. Y.—The Cadieux Co., 37 West 28th street.

New York, N. Y.—Otto A. Mensel, 397 Lexington avenue.

Dorchester, Mass.—Miss Mildred Dunn, 756 Dudley street.

Roseville, Newark, N. J.—Roseville Florist, 554 Orange street.

Omaha, Neb.—C. L. Baldwin, 501 South 16th street, succeeding A. Hooge as proprietor of The Fernery.

NEWS NOTES.

Clinton, Mass.—Hollis A. Pease, who has for several months had a flower shop in the Associates' block, has gone out of business.

Newport, R. I.—J. B. Urquhart and Wm. McKay returned from the Davey Tree Surgery Convention well pleased with their experience.

Providence, R. I.—M. Cassidy & Company has moved from the Strand Building on Washington street to the Case Meade building on Dorrance street.

St. Louis—F. H. Weber's new store on Taylor avenue and Olive is quite an attraction, the show windows being prominently visible from the street cars and making a beautiful display.

Washington, D. C.—M. J. McCabe and Henry Witt have been very badly handicapped in getting their stock to market on account of the terrible condition of the road between Suitland, Md., and Silver Hill. Each of them has had to carry their cuttings long distances before reaching a point where they have been forced to keep their automobile delivery wagons.

NEW CORPORATION.

Providence, R. I.—The Eastern Wreath Manufacturing Company of this city has been granted a charter. The incorporators are Louis Shatkin, Charles Smith and James J. McGovern. The concern will deal in florists' supplies and is capitalized at \$25,000.

YOUNG & NUGENT

42 West 28 Street
New York

Members Florists' Telegraph Delivery

A. T. BUNYARD

NEW YORK

413 Madison Avenue at 48th Street.
Also Newport, R. I.

We Guarantee Satisfaction

MEMBER F. T. D. A.

**JOHN BREITMEYER'S
SONS**

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.



GUDE BROS CO
1234 F ST NW
WASHINGTON DC

GUDE BROS. CO.
WASHINGTON, D. C.

Member Florists Telegraph Delivery

IN THE

National Capital

At your service to deliver Flowers
or Designs on Order by Tele-
graph or otherwise. Prompt
Reliable Service.

GEORGE H. COOKE

Connecticut Ave. and L St.
WASHINGTON, D. C.



Our New Delivery Auto.

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

Members Florists' Telegraph Delivery

G. E. M. STUMPP

761 Fifth Ave.

NEW YORK CITY

Member Florists' Telegraph Delivery Asso.

CHICAGO Send Your Orders to WILLIAM J. SMYTH

Member Florists' Telegraph
Delivery Association

Michigan Ave. at 31st Street

Prompt Auto Delivery
Service

THOS. F. GALVIN
INC.
NEW YORK 561 Fifth Ave.
Vanderbilt Hotel
BOSTON 1 Park Street
799 Boylston Street
Deliveries to Steamers and all Eastern Ports

CLEVELAND

A. GRAHAM & SON
5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

Orders Filled Day or Night for
CLEVELAND
and State of Ohio
Complete Stock. Regular discount to Trade.
KNOBLE BROS.
1896 W. 25th St., Cleveland, O.
Members Florists' Telegraph Delivery Ass'n.

THE SMITH & FETTERS CO.
735 Euclid Avenue
CLEVELAND, OHIO
Flowers of Every Kind in Season

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1532.
1415 Farnum St.,
OMAHA, NEB.

Rochester, N. Y.
J. B. KELLER SONS,
FLORISTS
25 Clinton Avenue, N.
Rochester Phone 306. Long Dist. Bell Phone 2726
Members Florists Telegraph Delivery

S. A. ANDERSON
440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
Stock and prompt deliveries in BUFFALO,
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK
Members of Florists' Telegraph Delivery.

HIGH GRADE PLANTS
For Retail Stores a Specialty
ASK FOR LIST
THOMAS ROLAND. Nabant, Mass.
WORCESTER, MASS.
Randall's Flower Shop
HARRY L. RANDALL, Proprietor.
Mention Florists' Telegraph Association

Flowers by Telegraph

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

Albany, N. Y.—H. G. Eyres, 106 State
St.
Albany, N. Y.—The Rosery, 23 Steuben
St.
Boston—Thos. F. Galvin, 1 Park St.
Boston—Penn the Florist, 124 Tremont
St.
Buffalo, N. Y.—S. A. Anderson, 440 Main
St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan
Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid
Ave.
Cleveland, O.—Adam Graham & Sons,
5523 Euclid Ave.
Cleveland, O.—Knoble Bros., 1836 W. 25th
St.
Cleveland, O.—The Smith & Feters Co.,
735 Euclid Ave.
Denver, Col.—Park Floral Co., 1643
Broadway.
Detroit, Mich.—J. Breitmeyer's Sons,
corner Broadway and Gratiot Ave.
Houston, Tex.—Kerr, The Florist.
Kansas City, Mo.—Samuel Murray, 1017
Grand Ave.
Los Angeles, Calif.—Howard & Smith,
853 So. Olive St.

New London, Conn.—Reuter's.
New York—J. H. Small & Sons, 505 Mad-
ison Ave., at 52d St.
New York—David Clarke's Sons, 2139-
2141 Broadway.
New York—Alex. McConnell, 611 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—A. T. Bunyard, 413 Madison
Ave., at 48th St.
New York—Dards, N. E. corner 44th St.
and Madison Ave.
New York—Max Schling, 22 W. 59th St.
New York—G. E. M. Stumpp, 761 Fifth
Ave.
New York—Thos. F. Galvin, Fifth Ave.,
at 46th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415
Farnum St.
Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave., N.
St. Louis, Mo.—Fred C. Weber, 4326-28
Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
Tarrytown-on-Hudson, N. Y.—F. R. Pier-
son Co.
Toronto, Can.—J. H. Dunlop, 8-10 West
Adelaide St.
Washington, D. C.—Gude Bros., 1214 F
St.
Washington, D. C.—George H. Cooke,
Connecticut Ave. and L St.
Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop,
3 Pleasant St.

Send Telegraph, Telephone or Mail orders
for florist service in this vicinity to

Howard & Smith
853 SO. OLIVE ST.
Los Angeles, Calif.

Every Order sure to receive
prompt and careful attention.

REUTER'S Members Florists Telegraph Delivery

STORES IN

New London and Norwich, Conn.
and Westerly, R. I.

We cover the territory between
New Haven and Providence

ST. LOUIS, MO.

FRED C. WEBER
4326-28 Olive St.

Member Florists Telegraph Delivery Association
NOTICE INITIALS. We have one store only

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

The Far-Famed Flowers of TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP
8-10 West Adelaide St. - TORONTO, ONT.

ALBANY, N. Y.

EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

106 STATE STREET, ALBANY, N. Y.

"THE HOME OF FLOWERS"

The largest cut flower store in America.
Orders for the TWIN CITIES and for all
Northwestern points given prompt at-
tention

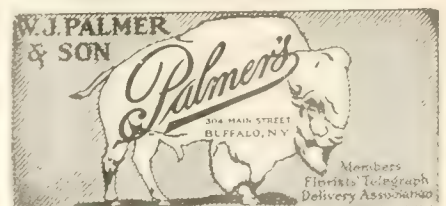
HOLM & OLSON, Incorporated
ST. PAUL, MINN.

The Park Floral Co.

J. A. VALENTINE, Pres.

Members Florists' Telegraph Delivery.

DENVER, COLORADO



KERR ORDERS FOR TEXAS
HOUSTON, TEXAS
TheFlorist Member F.T.D. Association

NEWS ITEMS FROM EVERYWHERE

CHICAGO.

Mr. and Mrs. Emil Buettner are spending some time in southern California. Mr. Buettner is president of the A. L. Randall Co.

Chas. Wiffin and son, Sidney, left Mar. 10th for South Dakota to try farming and stock raising instead of growing flowers.

H. N. Bruns and family returned from California, March 6th, where they have spent several weeks. Mr. Bruns says he saw much to admire in southern California, but nothing that would tempt him to leave Chicago for several years at least.

Flower beds must go this year and vegetable gardens take their places if Chicago people are to be in line with the popular idea. The "Grow a Garden" movement began with the utilization of the vacant tracts by the city's poor, but has steadily climbed upward till it has now reached the dignity of meetings at the Art Institute.

Preparations for St. Patrick's Day are confined almost exclusively to the sale of colored carnations, tulips and roses and the sickly green (?) flowers will be looked upon with mirth by some and disgust by others as in former years. Many thousands of sham-rocks have been grown for Saturday's trade and the tiny plants with their dainty foliage are in great demand. Ten years ago these acceptable offerings first were placed before the trade in Chicago.

The city gardens' movement is being helped along by the principal's school garden committee, which has recommended that the one thousand acres of vacant land belonging to the school system be turned over to garden purposes. It was further recommended that for each reservation of 50 x 100 ft. a deposit of one dollar be made to insure good faith, and that parts of large tracts should be reserved for nurseries to supply the public schools with trees, shrubs, etc. Provision for the purchase of seeds at cost price by the school board is included and gives the retail seedsman one more grievance.

PITTSBURGH

G. Wessenauer, of The Flower Shop, Sewickley, is laid up with a severe attack of influenza.

Arthur H. Kramer is in charge of the new flowershop opened by David Hill at 6117 Penn avenue, East End.

Edward J. Baumbach has again returned to business after six weeks' absence on account of having had pneumonia.

George H. Thompson is in charge of the exhibit of the A. W. Smith Company being held at the Fort Pitt Hotel in connection with the annual products show of the Rotary Club.

The city of Pittsburgh has just received a fine collection of orchids for the Phipps Conservatory. They are the gift of Dr. John Fremont Shafer, who has abandoned his private conservatory in the East End. Merton L. Har-

ris of Plymouth, England, has been in charge of Dr. Shafer's greenhouse for some years past.

The Humane Society of Western Pennsylvania has issued a warning to boys that unnecessary killing of birds will be prosecuted to the full extent of the law. The warning was the result of a communication stating that boys were selling postcards with the idea of using the proceeds to buy airguns to kill birds.

A permanent organization to be known as the Pittsburgh Backyard Gardening Association has come out of the mass meeting held in the Chamber of Commerce rooms Tuesday evening. The next session will be held on Monday, March 26, and the organization will co-operate with the Pittsburgh Vacant Lot Gardening Association.

J. H. Weisman, superintendent of the Pittsburgh Vacant Lot Garden Association and Instructor in Nature Study and Garden Craft for the Pittsburgh Playground Association, has begun a course of Thursday evening lectures on gardening at the Central Young Men's Christian Association. Supplementing these lectures, demonstration work will be given on gardens of the Vacant Lot Gardening Association.

CINCINNATI.

Miss Mae Carroll, of Norwood, is on a trip to Florida.

Florists in the Sixth Street Flower Market had an excellent day last Saturday. Many potted blooming plants were the best sellers.

Neither Peter Weiland's nor P. J. Olinger's greenhouses at New Castle, Ind., were touched by the tornado which passed through that town on Sunday.

ROCHESTER, N. Y.

H. B. Stringer has returned to business after ten days illness.

Robert Havill, of Geo. B. Hart's, was married on Wednesday, March 12th.

The regular monthly meeting of the Florist Club took place March 12th.

Herman Muller, East Rochester, is erecting a new greenhouse, 20 x 60 feet, which he expects to have completed in a few days.

PHILADELPHIA.

A Stag Smoker will be given by the Florists' Club in honor of the visiting members of the National Rose Association on Wednesday evening, (9 o'clock) March 21st, in the Adelphia Roof Garden. A buffet luncheon, prominent speakers and a vaudeville show from the leading shows in town will combine to make a very pleasant evening, lasting until midnight.

Attleboro, Mass.—The Mossberg Manufacturing Company has notified its employees, several hundred in number, that land for garden purposes would be given them. Each employee who desires to have a garden will be furnished with a lot, and at the end of the season the firm will award prizes for the best gardens.

BOSTON.

The Bowling League will close its present season with a royal banquet at Young's Hotel on Thursday night, March 22. A dazzling array of cups contributed by local firms and individuals, sixteen in number, to be awarded to the high-liners, is shown in the window of Penn the Florist, where it has attracted much attention.

The first visit of the Boston Market Gardeners' Association to Woburn occurred on March 3, when a number of the association members made a tour of the greenhouse plants in that city. They met at the home of Alex Porter, to have dinner, and in the afternoon visited greenhouse establishments where vegetable forcing is carried on.

The park and recreation commission has arranged for practical lessons in gardening to be given every day from 10 A. M. to 12 noon and from 2 to 5 P. M. at the yard of the city greenhouses at East Cottage street and Massachusetts avenue. Martin Finaghty of the department, will have charge of the work. He will instruct all applicants.

The big Spring Show at Horticultural Hall is scheduled to open on Wednesday, March 21, and it is to have a number of unique features in arrangement and exhibits. A Flemish garden is promised by R. & J. Farquhar & Co.

President R. M. Saltonstall is endeavoring to stimulate a wider interest in floriculture among the public, and has arranged for a number of expert floriculturists to be in attendance during the show. They will explain to the visitors the different exhibits and gladly give any information about the growing and culture of plants and flowers.

UNIVERSITY OF ILLINOIS INSPECTION TRIP.

Seventeen members of the Floricultural Club of the University of Illinois visited Chicago on an inspection trip from March 8 to 11. On Thursday evening, March 8, they were the guests of the Chicago Florists' Club at a chicken dinner and later at their monthly meeting. The spirit of good fellowship so evident at this gathering made a lasting impression upon the visitors. An interesting Novelty Exhibition was held in conjunction with this meeting.

On Friday morning several of the leading wholesale and retail stores were visited. A thorough inspection was made of the immense A. L. Randall Company supply house where they were shown the manufacture of many florist novelties. After taking luncheon with P. J. Foley, a visit was paid to the J. C. Vaughan greenhouses where the students were given an opportunity of seeing the large and varied stock required for a catalogue trade. Later in the afternoon, the Gregg Station

You Will Get the Easter Orders

IF YOU HAVE THE GOODS THE CUSTOMERS WANT

If Not—Your Competitor Will Get the Business

THE GOODS WE OFFER YOU WILL PLEASE THEM FOR THEY ARE THE BEST IN THE WORLD

We have splendid novelties and all the standard goods in endless variety, Home Manufacture and Imported. Stock up now and have the goods to show customers. Send for catalogue and prices and see how much you can do with a little money when you go straight to headquarters—*The Florists' Supply House of America.*

H. BAYERSDORFER & CO.

Manufacturers and
Importers

1129 Arch Street, PHILADELPHIA, PA.

Write for
Catalogue

greenhouses of Bassett & Washburn were visited and the boys were shown about by the genial Mr. Benson. In addition to the well grown stock, the well designed packing houses and boiler plant were points of especial interest.

On Saturday morning the first stop was made at the Robey street establishment of Peter Reinberg. The party was shown about the place by Mr. Reisling, who called to the attention of the members the methods of propagating and growing used at this place. The next stop was made at the notable establishment of the Poehlmann Bros. at Morton Grove. Here the party had the pleasure of going through the plant, cutflower and orchid departments with the hospitable August Poehlmann. After luncheon, the party proceeded to Plant B, where they were shown about by Adolph Poehlmann. Of especial interest here were the large vats where the fertilizer was prepared for this immense rose establishment. Late in the afternoon the party arrived at Frank Oechslein's, where was seen a large assortment of excellently grown decorative plants. Mr. Oechslein explained many interesting points concerning the culture of these plants.

The opportunity of visiting this large number of places was made possible through the courtesy of Messrs. Adolph Poehlmann, August Poehlmann, Herman Bruns and the Foley Greenhouse Manufacturing Company, who placed their automobiles at the disposal of the visitors.

PUBLICATION RECEIVED.

The Page Company, Boston, has already started with the season's crop of vacation books for young people. "Blue Bonnet Debutante is just off the press. Lela Horn Richards is the author and the story is a worthy addition to the popular Blue Bonnet Series. It is a wholesome romance and will find eager readers among the girls of high school and college age. 300 pages and 7 full page plates by Elizabeth Withington. Price, \$1.50.

DURING RECESS.

Gardeners' and Florists' Club of Baltimore.

The Gardeners' and Florists' Club of Baltimore held its 30th anniversary banquet Monday night, March 12, at the Rennert Hotel. Urging the florists to develop the bulb industry, which has been somewhat demoralized by the European war, Prof. T. B. Symons, of the faculty of the Maryland State College of Agriculture and secretary of the Maryland Horticultural Society, was the principal speaker.

The tables were adorned with carnations, smilax and ferns. J. H. Moss was toastmaster and he introduced as speakers, besides Professor Symons, R. L. Graham, Richard Vincent, Jr., the "grand old man" of the florist business in this state, and others.

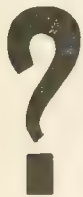
Before the banquet there was a business meeting at which the following officers were elected for the ensuing year: President, F. C. Bauer; vice-president, John A. Nuth; secretary,

N. F. Flitton; financial secretary, George Talbott; treasurer, Fred G. Burger, and librarian, C. M. Wagner. The four last named were re-elected to the offices.

The following were present: N. F. Flitton, William Lehr Erdman, C. M. Wagner, John Simon, Jr., Charles B. Penn, J. F. Meyer, Fred G. Burger, Christopher Gernhardt, R. L. Graham, G. P. Hambruck, J. A. Nuth, J. A. Ritter, A. A. Niessen, A. Spath, T. B. Symons, Claymore Seick, Andrew Anderson, G. W. Stisser, F. C. Bauer, A. G. Fiedler, Charles Patterson, William Ekas, Richard Vincent, R. A. Vincent, William and Irwin Bauer, Arthur Lewis, Frank Malach, Reuben Harrison, Edward Sisson, H. J. Quick, Mack Richmond, J. J. Perry, James Hamilton, W. E. McKissick, Harry Wagner, Thomas Stevenson, W. J. Johnston, Edward Kress, Herbert Wagner, J. H. Moss and George Morrison.

Newark, N. J.—Fire in the florist store of Carl Voight on March 5, caused a damage of \$700. Overheated furnace.

WHAT'S NEW



WE HAVE IT

PITTSBURGH CUT FLOWER COMPANY

(Address) FLORISTS' SUPPLY DEPT.

116-118 Seventh St.,

PITTSBURGH, PA.

Our new twenty page ILLUSTRATED CATALOGUE. Chucked full of new things for the Retail Florist.

This catalogue will be ready for mailing March 17th and we would like that every Retail Florist in the United States should have a copy.

This catalogue contains many novelties which are valuable for your Easter Business. A postal will bring it to you. Send for it today.

CUT FLOWERS for EASTER

From the present indications there will be plenty of business this year.

Write us today in regard to your requirements.

THE LEO NIESSEN CO.

Wholesale Florists

1201-05 Race Street,

PHILADELPHIA, PA.

Advertisers' Opportunity

Boom Your Spring Trade

In the *Spring Flower Show* Issue of HORTICULTURE.

This highly interesting number will be issued MARCH 24.

It will find many thousands of eager readers in every part of the country.

You know the quality of Horticulture readers. Tell them what you have to offer. Let HORTICULTURE be YOUR SALESMAN.

THEY'LL BUY

EDWARD REID WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.

CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

W. A. LEONARD J. M. DEUTSCHER
Bell, Locust 1497 Keystone, Race 1656

Philadelphia Wholesale Florist Exchange

1615 Ranstead St., PHILADELPHIA, Pa.

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$1.85. 50,000...\$8.00. Sample free.
For sale by dealers.

E. G. HILL CO.

Wholesale Florists

RICHMOND, IND.

Please mention Horticulture when writing.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

264 RANDOLPH ST., DETROIT, MICH.

The House for Quality and Service

ZECH & MANN

We are Wholesale Florists Doing
a Strictly Wholesale Business

30 East Randolph Street, CHICAGO



POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut Flower Market

Daily consignments from
leading growers

Full line of Florists'
Supplies

Write for quotations before
ordering elsewhere

262B DEVONSHIRE ST., BOSTON, MASS.
Telephone, Main 6267-6268

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON Mar. 15		ST. LOUIS Mar. 12		PHILA. Mar. 5	
Roses						
Am. Beauty, Special...	50.00	to 75.00	30.00	to 40.00	60.00	to 75.00
" " Fancy and Extra...	20.00	to 35.00	20.00	to 30.00	30.00	to 60.00
" " No. 1 and culls...	4.00	to 8.00	4.00	to 10.00	6.00	to 13.00
Russell, Euler, Mock...	2.00	to 10.00	3.00	to 15.00	6.00	to 25.00
Hadley...	4.00	to 12.00		to 15.00	6.00	to 25.00
Arenberg, Hoosier Beauty...	4.00	to 10.00	4.00	to 8.00	6.00	to 15.00
Ward...	2.00	to 8.00	3.00	to 10.00	4.00	to 8.00
Killarney, Radiance, Taft...	2.00	to 9.00	3.00	to 8.00	3.00	to 10.00
Ophelia, Sunburst, Hillingdon...	4.00	to 10.00	4.00	to 10.00	4.00	to 15.00
Key...	6.00	to 12.00		to 15.00		to 25.00
Carnations	1.00	to 2.50	1.50	to 3.00	2.00	to 4.00
Cattleyas	30.00	to 40.00		to 50.00	50.00	to 60.00
Dendrobium formosum...		to 50.00		to 50.00		to 60.00
Lilies, Longiflorum...	8.00	to 10.00		to 12.50		to 6.00
Lilies, Speciosum...	6.00	to 8.00		to 10.00	5.00	to 8.00
Callas...	6.00	to 8.00		to 15.00	8.00	to 12.00
Lily of the Valley...	3.00	to 5.00		to 6.00	4.00	to 6.00
Snappdragon...	3.00	to 6.00		to 10.00	4.00	to 12.00
Daffodils...	1.00	to 2.00	2.00	to 3.00	2.00	to 4.00
Narcissi, Paper White...	1.50	to 2.00		to 2.00	2.00	to 3.00
Roman Hyacinths...		to 2.00		to 2.00	3.00	to 4.00
Freesia...	1.50	to 4.00	2.00	to 3.00	2.00	to 3.00
Tulips...	1.50	to 5.00		to 2.00	2.00	to 4.00
Calendulas...	2.00	to 3.00		to 2.00	2.00	to 4.00
Sweet Peas...	.35	to 1.00	.30	to 1.00	.50	to 2.00
Violets...	.20	to .40		to .50	.50	to .75
Marguerites...	1.00	to 3.00		to 1.00		to 1.00
Gardenias...	2.00	to 12.00		to 15.00	15.00	to 35.00
Adiantum...	1.00	to 1.50		to 1.00	1.00	to 1.50
Smilax...	12.00	to 20.00	15.00	to 20.00	15.00	to 20.00
Asparagus Plumosus, & Spreng. (100 Bchs.)...	25.00	to 35.00	35.00	to 50.00	25.00	to 50.00

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Flower Market Reports

BOSTON General trade has waked up somewhat and there seems to be a little more life about the wholesale marts, notwithstanding that the weather has not been conducive to any branch of the industry, but it must be confessed that even in "cultured" Boston the most aggressive evidence of activity in buying is the call for white carnations and green carnation dye for uses which are obvious. We hope they will all be left on the hands of the offenders. The quantities of daffodils, carnations, violets, tulips and callas that crowd the sales tables and stalls seem no less than a week ago. In fact, there appears to be a superfluity of everything in the flower line that one might ask for. Prices hang on about as heretofore except on job lots in quantity when the buyer if shrewd can usually carry his point.

CHICAGO The lethargy that overtook the trade last week has largely passed away and sales are very satisfactory again, largely due to a good demand for shipping stock. Prices are not so high on bulb stock as earlier in the season, but there is not the sharp decline that is often met with, fancy double tulips bringing four cents and good average tulips seldom bring less than three. Freesia has been too plentiful all the season to make a really good average for the growers, and there are still quantities of the white ones offered at all the houses. Rainbow freesia is now at its best and meets ready sale. Roses are in fair demand and a good supply is coming daily, the most of which are selling at satisfactory prices. Carnations are meeting with moderate sale except in white, which this week is very much in demand for coloring for St. Patrick's Day, advance orders being booked at not less than five cents. Daffodils are much in evidence, and a steady supply comes every day, with the outdoor ones now coming from southern Illinois to add to the quantity of stock. There is so much difference in size, however, that one does not conflict with the other. Sweet peas are in large supply and there is a great difference in stock

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI Mar. 12	CHICAGO Mar. 12	BUFFALO Mar. 12	PITTSBURG Mar. 5
Roses				
Am. Beauty, Special.....	45.00 to 50.00	40.00 to 50.00	..... to 60.00	50.00 to 75.00
" " Fancy and Extra.....	30.00 to 40.00	30.00 to 40.00	35.00 to 40.00	25.00 to 30.00
" " No. 1 and culls.....	8.00 to 20.00	6.00 to 15.00	8.00 to 15.00	10.00 to 20.00
Russell, Euler, Mock.....	..... to	4.00 to 25.00	6.00 to 8.00	6.00 to 15.00
Hadley.....	..... to .....	..... to	6.00 to 10.00	..... to
Arenberg, Hoosier Beauty.....	6.00 to 10.00	..... to	6.00 to 10.00	..... to
Ward.....	5.00 to 8.00	0.00 to 10.00	4.00 to 6.00	6.00 to 12.00
Killarney, Radiance, Taft.....	3.00 to 10.00	4.00 to 10.00	8.00 to 12.00	4.00 to 15.00
Ophelia, Sunburst, Hillingdon.....	6.00 to 15.00	6.00 to 10.00	5.00 to 10.00	6.00 to 15.00
Key.....	..... to .....	..... to .....	..... to .....	..... to
Carnations	3.00 to 4.00	1.00 to 3.00	2.00 to 3.00	2.00 to 4.00
Cattleyas.....	..... to 75.00	40.00 to 50.00	40.00 to 50.00	50.00 to 75.00
Dendrobium formosum.....	..... to .....	..... to .....	..... to .....	..... to
Lilies, Longiflorum.....	12.50 to 15.00	10.00 to 12.50	10.00 to 12.00	12.00 to 15.00
Lilies, Speciosum.....	..... to .....	..... to	4.00 to 6.00	..... to
Callas.....	8.00 to 10.00	10.00 to 15.00	8.00 to 12.00	..... to
Lily of the Valley.....	..... to 7.00	4.00 to 6.00	5.00 to 6.00	4.00 to 8.00
Snopdragon.....	4.00 to 6.00	6.00 to 12.00	5.00 to 8.00	6.00 to 12.00
Daffodils.....	3.00 to 4.00	2.00 to 3.00	2.50 to 3.00	2.00 to 4.00
Narcissi Paper White.....	..... to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 4.00
Roman Hyacinths.....	..... to	2.00 to 3.00	2.00 to 3.00	..... to
Freesia.....	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	3.00 to 6.00
Tulips.....	3.00 to 4.00	2.00 to 4.00	2.50 to 3.00	2.00 to 5.00
Calendulas.....	2.00 to 3.00	..... to 2.00	3.00 to 4.00	2.00 to 4.00
Sweet Peas.....	.50 to 1.00	.25 to 1.00	.75 to 2.00	.50 to 2.00
Violets.....	.50 to .75	.50 to 1.00	.30 to .50	.50 to .75
Marguerites.....	.75 to 1.00	.75 to 1.00	1.00 to 1.50	2.00 to 3.00
Gardenias.....	..... to .....	..... to .....	..... to .....	..... to
Adiantum.....	..... to 1.00	1.00 to 1.25	1.00 to 1.25	.75 to 1.25
Smilax.....	..... to 15.00	12.00 to 18.00	..... to 15.00	12.00 to 15.00
Asparagus Plu. & Spren. (100 Bhs.)	25.00 to 50.00	25.00 to 50.00	25.00 to 50.00	30.00 to 60.00

with the chance of sale largely in favor of the best grades. Some very good single violets of large size and long stems are to be had as well as less desirable stock. Green is scarce and much in demand.

CINCINNATI Stock is fairly plentiful. The demand from out of town is good. The rose cut is large and good except the American Beauty, which is short. Carnations have been selling well. Sweet peas are plentiful and sell at low prices. Receipts in jonquils, daffodils, tulips and Dutch hyacinths are excellent. Orchids have become very scarce.

NEW YORK So heavy are the supplies received daily in the wholesale establishments that even a spurt of active demand which occasionally comes to cheer up the sellers seems to go but a little way towards reducing the stock in sight, not to mention that which is packed away in cellars and coolers. Everything that is customary at this season, as well as quite a few things not commonly obtainable in the wholesale houses can be had in desired quantity. There is absolutely no pinch either now or on the horizon on

any line. Steady spring weather and warm sunshine, if it ever comes, will help materially to hold down the surplus.

PHILADELPHIA Towards the end of last week things brightened up a little and the good clean-up helped out on the general average, but as stocks are very plentiful prices have remained on an easy basis. American Beauty roses are coming in more freely, even the medium grade being now in evidence. All other roses are in ample supply. Carnations move a little better but the supply is so large that quotations remain on the low level previously reported. Orchids are in moderate supply and move off in fair shape. Sweet peas continue of fine quality and in ample supply and good demand. The lily market has improved a little and slightly better prices were realized. Lily of the valley comes in only in moderate quantity and cleans up well. Violets are very sluggish. Snapdragons continue fine but too much for the demand. The greens market seems to be the only one in the sellers' favor. Plumosis is particularly scarce.

(Continued on page 35)

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ROSES AND CARNATIONS	Last Half of Week ending Mar. 10 1917		First Half of Week beginning Mar. 12 1917	
American Beauty, Special	50.00	to 75.00	50.00	to 75.00
" " Fancy and Extra	38.00	to 40.00	30.00	to 40.00
" " No. 1 and culls	8.00	to 15.00	8.00	to 15.00
Russell, Euler, Mock	4.00	to 15.00	3.00	to 15.00
Hadley	15.00	to 75.00	12.00	to 75.00
Arenberg, Hoosier Beauty	2.00	to 10.00	2.00	to 10.00
Ward	1.00	to 10.00	1.00	to 10.00
Killarney, Radiance, Teft	1.00	to 5.00	1.00	to 5.00
Ophelia, Sunburst, Hillingdon	2.00	to 10.00	2.00	to 10.00
Key	3.00	to 12.00	3.00	to 12.00
Carnations	1.00	to 3.00	1.00	to 3.00

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MAURICE L. GLASS, Treasurer

Flower Market Reports

(Continued from page 347)

Quantities of goods are selling at prices which are discouraging to growers—street prices, as a matter of fact; but, in the words of an optimistic wholesale man, "it beats losing them." Fortunately, the various spring openings of department stores have called for quantities of potted plants and cut blooms, as this phase of decoration becomes more general and more elaborate each successive season.

Stock has been very plentiful for the past week with not much of a demand. Any stranger who happened to be on the street Saturday would have thought it was Flower Day. Every florist and street vender, even to the peddler, had flowers at a bargain price. Carnations, tulips, violets, daffodils and roses were the ones that were sold cheapest. There is quite a supply of azaleas, primulas, lilacs, genistas, heather, acacias and bulb plants, which find a ready market. About the only thing that is scarce is Asparagus plumosus here. It is hard to substitute but in some cases we can use smilax which is very plentiful.

The market during the past week has been lively with stock of all kinds plentiful. White carnations are somewhat scarce, owing probably to the expected demand at end of week for dyeing purposes. Bulbous stock is more plentiful. Greens are in demand and selling well.

Cloudy weather has had a marked ill effect upon stock of all kinds, sweet peas and gardenias being the worst sufferers. The former are only bringing about one-third their former prices. Orchids continue scarce but there is only a limited demand. American Beauty roses are moving fairly well. The heavy supply of bulbous stock is hurting the sale of all other flowers. Some very excellent plants are being offered.

VISITORS' REGISTER.

Cincinnati—G. W. Frisch, Dayton, Ohio; Fred Rupp, Laurenceberg, Ind.

Rochester, N. Y.—A. J. Bates, Oakfield, N. Y.; Valentine Gatz, Albion, N. Y.; George Ely, Clyde, N. Y.

New York—Patrick Welch, Boston; W. R. Nicholson, Framingham, Mass.; J. A. Kirkgaarde, Bedford, Mass.

Boston—H. C. Neubrand, representing A. N. Pierson, Inc., Cromwell, Conn.; Leonard Barron, Garden City, N. Y.; S. S. Skidelsky, Phila. Pa.

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Chicago—H. V. Hunkel, Milwaukee, Wis.; H. B. Dorner, Urbana, Ill., and fourteen of the University students; J. Nelson, Peoria, Ill.; C. C. Pollworth, Milwaukee, Wis.; E. D. Marsh, of Marsh Trellis Co., Westboro, Mass.

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MISCELLANEOUS	Last Half of Week ending Mar. 10 1917		First Half of Week beginning Mar. 12 1917	
Cattleyas	15.00	to 35.00	15.00	to 35.00
Dendrobium formosum	.....	to 60.00	.....	to 60.00
Lilies, Longiflorum	5.00	to 8.00	5.00	to 8.00
Lilies, Speciosum	3.00	to 8.00	2.00	to 8.00
Callas	6.00	to 10.00	6.00	to 10.00
Lily of the Valley	1.00	to 5.00	1.00	to 5.00
Snapdragon	3.00	to 5.00	3.00	to 5.00
Daffodils	1.00	to 1.50	1.00	to 1.50
Narcissi, Paper White	1.00	to 1.50	1.00	to 1.50
Roman Hyacinths	1.00	to 2.00	1.00	to 2.00
Freesia	.50	to 2.00	.50	to 2.00
Tulips	1.00	to 3.00	1.00	to 3.00
Calendulas	1.00	to 2.00	1.00	to 2.00
Sweet Peas	.10	to 1.00	.10	to 1.00
Violets	.25	to .50	.25	to .50
Marguerites	1.00	to 2.00	1.00	to 2.00
Gardenias	3.00	to 25.00	3.00	to 25.00
Adiantum	.50	to 1.00	.50	to 1.00
Smilax	12.00	to 15.00	12.00	to 15.00
Asparagus Plumosus, & Spreng	15.00	to 35.00	15.00	to 35.00

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King Construction Co., North Tonawanda, N. Y.

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French and Dutch Bulbs.
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Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
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Burnett Bros., 98 Chambers St., New York.
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Henry F. Michell Co., Philadelphia, Pa.
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Joseph Breck & Sons Corp., Boston, Mass.
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F. Rynveld & Sons, New York City.
Seasonable Suggestions.
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W. E. Marshall & Co., New York City.
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Arthur T. Boddington Co., Inc.,
New York City.
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and 44 Whitehall St., New York City.
Spring Bulbs.

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C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK BRANCH, 8-10 Bridge St.

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Swas-Teeka Cannas.

CARNATIONS

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CARNATION STAPLES

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 1000 for 35c.; 3000 for \$1.00 postpaid. I. L. PILLSBURY, Galesburg, Ill.

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DAHLIAS

Peony Dahlia Mrs. Frederick Grinnell.
Stock For Sale.
JOHN P. ROONEY, New Bedford, Mass.

20 Dahlia tubers, all different, correctly labeled, postpaid, \$1.00. Six sets, (120 bulbs), \$5.00. Bulb and Seed catalog free BUNGALOW GARDENS, Netcong, N. J.

ORDERS BOOKED ANY TIME

For Fall or Spring delivery. Wholesale and Retail. Send for Catalogue. NORTHBORO DAHLIA & GLADIOLUS GARDENS, J. L. Moore, Prop., Northboro, Mass.

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John Wanamaker, Newest, Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to PEACOCK DAHLIA FARMS, Berlin, N. J.

DECORATIVE PLANTS

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Scottii Ferns, 2½ in. pots.....\$5.00 per 100
" 3 in. pots..... 8.00 "
Boston " 2½ in. pots..... 5.00 "
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Greenhouse glass, lowest prices. JOHN-STON GLASS CO., Hartford City, Ind.

GLASS—6 x 8, 8 x 10, 10 x 12, 10 x 14, \$2.25 per box. Other sizes at factory prices. C. N. ROBINSON & BRO., Dept. 29, Baltimore, Md.

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GOLD FISH

Gold fish, aquarium plants, snails, castles, globes, aquarium, fish goods, nets, etc., wholesale. FRANKLIN BARRETT, Breeder, 4815 D St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

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Spraying Results Guaranteed.

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English Ivy—Rooted cuttings, 90c. per
100 prepaid. Extra strong from soil 65c. in.
\$1.25. CHAS. FROST, Kenilworth, N. J.

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Specialists in Specimen Stock for Land-
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Lager & Hurrell, Summit, N. J.

HASSALL & CO., Orchid Growers and
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mense stock of Cattleyas.

PAINTS AND PUTTY

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In writing to Advertisers kindly mention Horticulture

PANSY AND VERBENA BASKETS

G. P. Read, Inc., New York City.

PETUNIAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.

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PEONIES

Peonies. The world's greatest collection. 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

Complete manuals on the Peony, Iris and Phlox. 25 cents each in stamps. C. S. HARRISON, York, Nebraska.

PECKY CYPRESS BENCHES

A. T. Stearns Lumber Co., Boston, Mass.

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PHLOX

CLEARING OUT SALE OF HARDY PHLOX IN VARIETIES

Including 2,000 F. G. von Larsburg, 3,000 Miss Lingard. Write for information and prices. OLD TOWN NURSERIES, South Natick, Mass.

PIPE AND FITTINGS.

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"Riverton Special."

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PRIVET

Amoor River Privet, 2 to 3 ft., \$2.00 per 100; \$15.00 per 1000. REYNOLDS NURSERY COMPANY, Winston-Salem, N. C.

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ROSES, CANNAS AND SHRUBS.

THE CONARD & JONES COMPANY,

WEST GROVE, PA.

SASH

STANDARD HOTBED SASH, with cross bar, 85c. each; lots of 25 and over, 80c. each. Satisfaction guaranteed or money refunded. Glass 6 x 8, 8 x 10, 10 x 12 or 10 x 14, \$2.25 per box of 50 sq. ft. C. N. ROBINSON & BRO., Dept. 29, Baltimore, Md.

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Carter's Tested Seeds.

Seeds with a Pedigree.

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SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and orchid baskets always on hand. LAGER & HURRELL, Summit, N. J.

STRAWBERRY PLANTS

Strawberry Plants, \$2.50 per 1000. Catalogue free. BASIL PERRY, Georgetown, Delaware.

SWEET PEA SEED

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COMET TOMATOES—Fine plants grown from Roney's special forcing strain in sterilized soil. Strong 2 1/4 inch plants, \$2.50 per 100; \$22.50 per 1000. Cash please. J. J. CLAYTON & SON, West Grove, Pa.

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Plant Propagation, Greenhouse and Nursery Practice

By M. G. KAINS

We have had many inquiries from time to time for a reliable and up-to-date book on plant propagation, but were always at a loss to find any publication that we could recommend. The subject has been dealt with in fragmentary manner only in books that have come to our notice. So it is well that this new work has been issued, especially as it is both comprehensive and practical, and it should meet with a ready sale among plantmen, nurserymen and gardeners. There are nineteen chapters covering in detail topics of germination and longevity of seeds, propagating by buds, layering, cuttings, grafting, etc., fruit tree stocks, clones, etc., and there are eight pages of condensed cultural instructions in tabulated form, covering annuals and perennials from seed, woody plants, evergreens, vines, bulbs and tubers, greenhouse and house plants, ferns, palms, water plants, orchids and cacti. The illustrations are numerous, comprising 213 figures and halftone plates. There are 322 pages well bound and on heavy paper, teeming with helpful information. It is a book which no cultivator can afford to do without. It is worth many times its price. Copies can be supplied from the office of HORTICULTURE at publisher's price, \$1.50.

Horticulture Publishing Co.

147 SUMMER ST., BOSTON, MASS.

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EASTER.
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The unique monthly publication which furnishes reliable and interesting up-to-date information regarding the value of pecans and other edible nuts and how to grow them for profit.

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No. 2 Francis St.

WAYCROSS, GA.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 147 Summer St., Boston.

HELP WANTED

WORKING FOREMAN OR MANAGER.

Wanted: An up-to-date grower, with a good knowledge of all sorts of plants; a good business man able to attend to customers and manage help to advantage. Apply with full particulars, stating salary expected to start to "ADVANCEMENT," care HORTICULTURE.

WANTED.

Bright young man willing to take an interest in his work where he would be given a chance to learn all of the different branches of horticulture, with advancement. Apply with particulars to "OPPORTUNITY," care HORTICULTURE.

WANTED Good all-round men for greenhouse work and to fill orders. Must be sober and industrious. Permanent positions and good wages to the right men. State age, experience and wages expected in first letter. PETER HENDERSON & CO., 390 Arlington Ave., Jersey City, N. J.

SALESMEN: Attractive and profitable side line for salesmen, calling on florists, gardeners and private estates. Address "J. J.," care of HORTICULTURE.

SITUATIONS WANTED

WANTED—Position as assistant on private estate. Good worker with testimonials as to character, industry and ability as gardener. Address PATSIE PASCUCCI, 1 North Square, Boston.

WANTED—Position on private estate by well-recommended and thoroughly capable gardener. Experienced tree mover. Address JOS. DE MARTINO, 1 North Square, Boston.

SITUATION WANTED as outside gardener on private estate, by single man who thoroughly understands the business. W. J. DEVERY, Box E, Groton, Conn.

SITUATION WANTED as Head Gardener on private estate. Life's experience in all branches under glass and outside; a successful grower of fruit under glass, stove and greenhouse plants, 'mums, carnations; well up in herbaceous and alpine. Nationality, English; married; no family. Good references. Address "F.," care of HORTICULTURE.

FOR SALE

FOR SALE—Two greenhouses, one 190 x 28, one 185 x 31; and dwelling house, six rooms with bath, hot and cold water, steam heat, half-acre of land. Address JOSEPH FARRELL, 197 Broadway, Somerville, Mass. Tel., Som. 1517-W.

FOR SALE—TWO (2) GREENHOUSES. One of an area approximating 14,000 sq. ft. of glass, brick stack, heater and piping. The other of an area approximating 1,000 sq. ft. of glass, headhouse 30' x 40', heater and piping. Write or apply to Superintendent of Buildings and Grounds, CORNELL UNIVERSITY, Ithaca, N. Y.

MISCELLANEOUS

WANTED—Second hand refrigerator for small floral store. In writing give dimensions, conditions and lowest cash price. W. J. KINGSBURY, Florist, Derry, N. H.

In writing to Advertisers kindly mention Horticulture

Est. 1765

Pot Makers for a
Century and a Half**HEWS****STRONG
RED
POROUS****POTS**

Inc. 1904

World's Largest
ManufacturersStandard, Azalea, Bulb, Orchid, Fern Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.Write for Catalogue
and Discounts**A. H. HEWS & CO., Inc., Cambridge, Mass.**Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.

If you need a boiler in a hurry telephone or telegraph at our expense

KROESCHELL BOILERS

SEND FOR CATALOG

Kroeschell Bros. Co., 466 W. Erie St., Chicago**KING CONSTRUCTION COMPANY, North Tonawanda, N. Y.****GREENHOUSES****We Claim Maximum Strength and Minimum Shadow. Investigate**

BOSTON OFFICE: 113 State St. PHILADELPHIA OFFICE: Harrison Bldg., 15th and Market Sts. NEW YORK OFFICE: 1476 Broadway

DREER'S "Riverton Special" Plant Tub

No.	Diam.	Ea.	Doz.	100
10	20 in.	\$1.60	\$17.50	\$145.00
20	18 in.	1.45	15.50	130.00
30	16 in.	1.10	12.25	100.00
40	14 in.	.70	7.75	60.00
50	12 in.	.50	5.50	45.00
60	10 in.	.40	4.40	35.00
70	8 in.	.30	3.50	25.00

Manufactured for us exclusively. The best tub ever introduced. The neatest lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.

HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.**OHIO LICENSED FIREMEN LAW.**

The following letter setting forth the hardships imposed upon greenhouse establishments by the present Ohio law governing steam boilers has been sent to all members of the legislature of that state:

To the Senators and Representatives:

We wish to bring to your attention the great hardships inflicted upon the greenhouse owners by Section 1058-1, a law which makes it necessary to maintain a licensed boiler operator for steam boilers of thirty horse power, or over.

We, therefore, take the liberty of bringing to your notice some of the difficulties encountered in complying with the law.

1st. We feel it absolutely necessary that a fireman should be an experienced grower. We could recount many cases in which great losses have been incurred by employing expert boiler operators, but men ignorant of the importance of ventilation, plant, humidity, the correct temperatures and the other difficulties encountered in growing the great range of plants of the modern commercial greenhouse.

2nd. A great many of the establishments are not large enough to afford the expense of hiring additional licensed boiler operators. The enforcement of the present law may necessitate the closing of some of these smaller plants.

3rd. Many growers operate their own boilers during the day. The present law makes it impossible for a man to do this now even in cases of extreme emergency.

4th. Many of the florists are also vegetable growers; additional boiler service would necessitate increased prices which would be added to the cost of food. Prices are sure to be raised if high priced operators are necessary.

5th. Greenhouses need a fireman only six months during the year, consequently we cannot get good men because we cannot offer continuous employment.

6th. Greenhouses are located away from dense population. There is little danger to human life by explosions.

The florists and vegetable growers feel that it was not the intention of the present law to include greenhouse owners. May we urge that the following paragraph be added to Section 1058-1:

1058-1. Providing, however, that nothing herein shall apply to bona fide owners of greenhouses and hot houses.

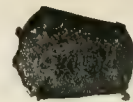
MASTICAFor Greenhouse
Glazing**USE IT NOW****F. O. PIERCE CO.**12 W. BROADWAY
NEW YORK

Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

GLASS CLOTH

A transparent waterproof fabric, guaranteed to generate about the same warmth and light as glazed sash, or money back. For all forcing purposes. Sample 3x6 feet. 50c. prepaid.

PLANT FORCERS

TURNER BROS., Bladen, Nebraska**NON-KINK WOVEN HOSE**

In any length (one piece) with couplings, 15c. per foot. Unequalled at the price.

**Hose Valve, 70c.**

All brass except the hand wheel. Has a removable leather disk which is easily replaced to keep water tight. Stuffing box prevents leaks at stem.

METROPOLITAN MATERIAL CO.

1297-1325 Flushing Ave., Brooklyn, N. Y.

**Dreer's Peerless
Glazing Points
For Greenhouses**

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.

The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid. Samples free.

HENRY A. DREER,
714 Chestnut Street,
Philadelphia.

**FULL
SIZE
No 2****STANDARD FLOWER****POTS**

If your greenhouses are within 500 miles of the Capitol, write us; we can save you money.

W. H. ERNEST

29th & M Sts., Washington, D. C.

The Florists Hall Association rate of insurance from Nov. 1st, 1916 to Nov. 1st, 1917 will be twenty cents per hundred square feet of single thick glass and eight cents per hundred square feet of double thick glass. For particulars address JOHN G. ESLER, Sec., Saddle River, N. J.

FOLEY MATERIALS

ARE THE BEST FOR

Iron Frame, Pipe Frame or Wood Frame GREENHOUSES

Estimate and Sketch Submitted Promptly

THE FOLEY GREENHOUSE MFG. CO.

3275 West 31st Street,

CHICAGO, ILL.

CYPRESS GREENHOUSE STOCK

PECKY CYPRESS STOCK

HOT BED SASH

Ask for Circular D and Prices

THE A. T. STEARNS LUMBER COMPANY
NEPONSET, BOSTON

HOT BED GLASS

BEST BRANDS

LOWEST PRICES

SHARP, PARTRIDGE & CO.

2263 Lumber Street,

CHICAGO

THE ONLY PERFECT

LIQUID PUTTY MACHINE

WILL LAST A LIFETIME
\$1.25 each

Adjustable—can and frame separate—easily cleaned. Frame all one piece, of malleable iron. More practical and more easily operated than any other.

SEAL TIGHT LIQUID PUTTY

\$1.35 per gallon

In 10 gallon lots. \$1.40 per single gallon.

METROPOLITAN MATERIAL CO.

1297-1325 Flushing Ave., BROOKLYN, N. Y.



We are in a position to make prompt shipments of Sash Operating Device and Greenhouse Fittings. Our Catalog contains illustrations and descriptions with complete net prices. Why not write for one of these today.

ADVANCE CO.

Richmond, Indiana

WE ARE SPECIALISTS IN GREENHOUSE GLASS PAINTS and PUTTY

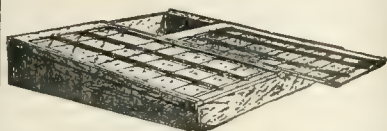
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Most Perfect White Paint Made.

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The DWELLE-KAISER Co.

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BUFFALO, N. Y.



HOTBED SASH at 80c. each
Made of best grade Gulf cypress.

Glazed Hotbed Sash from \$1.65 up.

Double Light Sash up to \$4.00.

We carry a large stock of all sizes.
Write us for estimate

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Most up-to-date arm on the market. Proof that it is better than any other is that others tried to imitate it. Write for our 1917 catalog just out.

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Richmond, Ind.

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Morristown,

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In Any Quantity

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CYPRESS. Gulf Cypress, thoroughly air dried, in any quantity up to cargo lots.

BOILERS. All kinds, all sizes. Scientifically perfect. Fuel saving.

VENTILATING APPARATUS. Simple but reliable, easy to operate.

FITTINGS. For heating, irrigating, benches, construction.

HOTBED SASH. All sizes. Thousands in stock.

PUTTY and Liquid Putty.

GLASS, all sizes, any quantity.

Our stock comprises anything and everything pertaining to greenhouse construction.

**WE CAN SAVE MONEY
FOR YOU.**

S. Jacobs & Sons

Greenhouse Builders

1359-1385 Flushing Avenue
BROOKLYN, N. Y.

GLASS

AND

HOT-BED SASHES

Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.

215-217 Havemeyer St., Brooklyn, N. Y.

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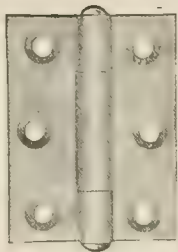
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Difficult and rejected cases specially solicited. No misleading inducements made to secure business. Over 30 years' active practice. Experienced, personal, conscientious service. Write for terms. Address,

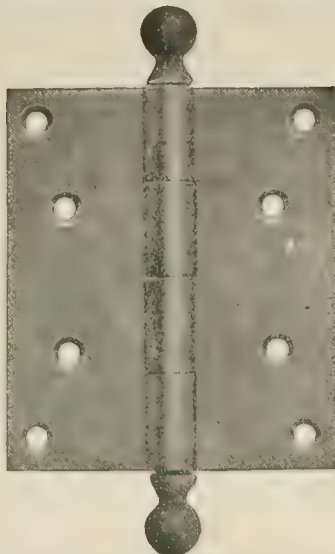
SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.



Six screw galvanized, brass pin, vent sash hinge, price each with screws, 12c.

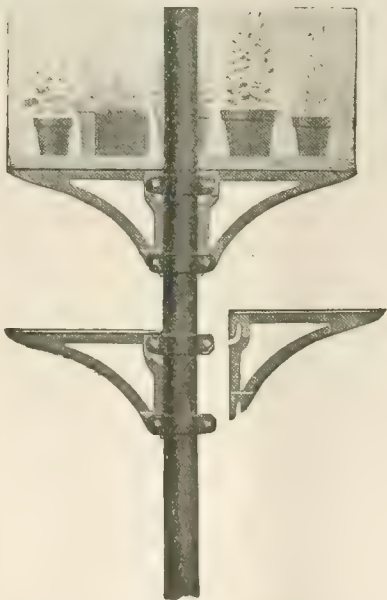


Eight screw Japanned cast steel door hinges with removable brass pins. Per pair with screws, 19c.



Painters' Bracket. Slot slips over screws in rafter cap. Leave screws always in. Ready any time for glass repairing or painting. Price per pair, 91c.

Hinges, Big Bill Shelf Brackets Orchid Hangers and Painters Brackets



Big Bill shelf brackets. Single or double sided. Same clamp does for either. Single bracket and clamp complete with 4 bolts, 52c. Extra brackets, 20c. each.

WE have stopped buying our hinges.

We make them.

Now that we make them, you will want to stop buying others and buy ours.

Stop, because we make them so they will be the best possible for greenhouse work.

They are not just hinges. They are greenhouse hinges.

Cast iron, galvanized; with brass pins.

Easter will soon be here. That means bench crowding. Buy Big Bill shelf brackets and "stop your crowding."

Yes, and orchid hangers—here's a "real one."

Send for one. Look it over. Try it out. Buy you surely will.

While you are about it look into those painters brackets. They are worth while.

Little or big, we want your business.



Orchid hanger clamped to rafter and equipped with rod hook. Price complete with bolt and rod, 28c.



Rafter orchid hanger clamp. Price complete with bolt, 17c.

Lord & Burnham Co.

Builders of Greenhouses and Conservatories

SALES OFFICES:

NEW YORK	BOSTON	PHILADELPHIA	CHICAGO	DETROIT	ROCHESTER	CLEVELAND
42nd Street Bldg.	Tremont Bldg.	Widener Bldg.	Continental & Commercial Bank Bldg.	Penobscot Bldg.	Granite Bldg.	Sweetland Bldg.
TORONTO, CANADA, Royal Bank Bldg.			MONTREAL, Transportation Bldg.			
FACTORIES: Irvington, N. Y.			Des Plaines, Ill.		St. Catharines, Canada	

Easter

1917

HORTICULTURE



At the New York Flower Show

This Picture Shows One of the Entrances to the F. R. Pierson Rose Garden. Winner of First Prize

Surplus Stock of EVERGREENS

Abies, balsamea, 3-3½ ft.

" **Veitchii**, 5-6 ft.

Juniperus, chinensis, 1½-2 ft.

" **chinensis**, 2½-3 ft.

" **argentea variegata**, 1-1½ ft.

" **communis aurea**, 2 ft. spread

" **communis Hibernica**, 2-2½ ft.

" **Pfitzeriana**, 1-1½ ft.

" **Pfitzeriana**, 2-2½ ft.

" **Pfitzeriana**, 2½-3 ft.

" **sabina**, 1 ft. spread.

" **sabina**, 1½ ft.

" **Virginiana**, 2-3 ft.

" **Virginiana**, 10 ft.

" **Virginiana**, 12 ft.

" **Virginiana**, 16 ft.

" **Virginiana**, 18-20 ft.

We have some extra fine specimens of these large cedars.

Juniperus V., canartii, 2-2½ ft.

" **V., elegantissima**, 1½-2 ft.

" **V., elegantissima**, 2½-3 ft.

" **V., glauca**, 3-4 ft.

" **V., Schottii**, 2½-3 ft.

" **V., Schottii**, 3-4 ft.

" **Tripartita**, 2-2½ ft.

Picea alcockiana, 3½-4 ft.

" **excelsa**, 2-3 ft.

" **excelsa**, 3-4 ft.

" **orientalis**, 1-1½ ft.

Pinus mughus, 12-15 in.

" **mughus**, 15-18 in.

" **strobis**, 2-2½ ft.

" **strobis**, 3-3½ ft.

Retinospera filifera, 1-1½ ft.

" **obtusa**, 2-2½ ft.

" **plumosa**, 1-1½ ft.

" **plumosa**, 1½-2 ft.

" **plumosa**, 2½-3 ft.

" **plumosa aurea**, 1-1½ ft.

" **plumosa aurea**, 1½-2 ft.

" **plumosa aurea**, 5-6 ft.

" **plumosa aurea**, 8-9 ft.

Taxus canadensis, 12-15 in.

" **cuspidata brevifolia**, 8-12 in.

" **cuspidata brevifolia**, 12-15 in.

" **cuspidata brevifolia**, 1½ ft. spread.

" **cuspidata brevifolia**, 1½-2 ft. spread

" **cuspidata brevifolia**, 6-8 in. for lining out.

" **repandens**, 6 in. spread.

" **repandens**, 12 in. spread.

Thuja occidentalis, 3-3½ ft.

" **occidentalis**, 3½-4 ft.

" **occidentalis**, 4-5 ft.

" **occidentalis, v. globosa**, 8 in. spread

" **occidentalis, v. globosa**, 12 in. spread

" **occidentalis, v. globosa**, 1-1½ ft. spread

" **occidentalis, v. globosa**, 2 ft. spread

" **Pyramidalis**, 2½-3 ft.

" **Pyramidalis**, 3-3½ ft.

" **Sibirica**, 1½-2 ft.

" **Sibirica**, 2½-3 ft.

Tsuga canadensis, 8-12 in.

" **canadensis**, 1½-2 ft.

" **canadensis**, 3-3½ ft.

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OF

Hardy Perennial Plants

Old Town Nurseries

SOUTH NATICK, MASS.

M. P. HAENDLER, Proprietor

GERANIUMS

ORNELLA, E. H. TREGO, S. A. NUTT, COL. THOMAS, etc., also white sorts, at \$2.00 per 100, \$18.50 per 1000 for 2-in. and

\$3.00 per 100, \$25.00 per 1000 for 3-in.

SINGLE GERANIUMS in a good assortment, also SCENTED GERANIUMS, including Apple, Rose, Nutmeg, etc., at \$2.00 per 100 for 2-in., \$3.00 per 100 for 3-in.

MARYLAND GERANIUM \$4.00 per 100, \$35.00 per 1000. We see no reason for recalling anything we have ever claimed for Maryland.

MISCELLANEOUS PLANTS

2-in., \$2.00 per 100, \$18.50 per 1000; 3-in., \$3.00 per 100, \$25.00 per 1000 ACHYR-
ANTHES, ALYSSUM, Giant and Dwarf. ALTERNANTHERAS, 10 varieties.
AGERATUM, 6 varieties. BEGONIAS, Luminosa, Vernon, Erfordii, Pfützer's Triumph, Gracilis Rose. COLEUS, 10 varieties.
CUPHEA, HARDY ENGLISH IVY, HELIOTROPE, LEMON VERBENAS, LANTANAS, 10 varieties. MOONVINES,
White and Blue. PARLOR IVY, PETUNIAS, Double and Fringed, Mixed Colors. POMPON CHRYSANTHEMUMS, large
assortment. SALVIA, Bonfire and Zurich. SWAINSONA, White. SCENTED GERANIUMS.

ABUTILON SAVITZII, 2-in., \$3.00 per 100; 3-in., \$4.00 per 100.

ALGONQUIN, a true deep blue single PETUNIA, fills a long felt want for something blue for window boxes, vases, etc., propa-
gated by cuttings, \$3.00 per 100.

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MD.

SPRING BULBS

Ready for delivery, Bulbs and Roots of

GLADIOLUS, CANNA, DAHLIA, PAEONIES, IRIS, hardy PHLOX and
other PERRNNIALS; also SHRUBS and TREES for Florists' handling.

Write for estimates, or list, to

AUGUST RÖLKER & SONS, P. O. Box 752,
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For Every Purpose

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GERMAN, SWEDISH
AND DUTCH PIPS

90-92 West Broadway, New York

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Our Rose Garden once more wins the **Five Hundred Dollar** Prize as the most artistic and finished exhibit of its class ever staged.

The \$250 prize for **BEST** Display of Cut Roses, based on **quality, arrangement** and **artistic effect**.

FIRST on Killarney Queen, 100 Blooms, Mrs. Charles Russell, Ophelia, Scott Key and Richmond, 50 Blooms each.

Silver Medal for Best Undisseminated Rose and **First** for Best Vase of any new Rose, awarded to our **Rosalind**.

FIRST for Display of Nephrolepis, comprising 50 varieties. All of the foregoing were centres of attraction and attested the high quality of our plant and cut flower product.

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TARRYTOWN, - - N. Y.

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"HAMBURG LATE WHITE" CHRYSANTHEMUM

CERTIFICATE OF MERIT AWARDED BY CHRYSANTHEMUM SOCIETY OF AMERICA.



Above picture was taken Nov. 26, 1916, and will give a good idea of what "Hamburg Late White" looks like when grown to single stems and planted six inches each way.

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2 inch pots, \$15.00 per 100; \$125.00 per 1000

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Keeping qualities are excellent and where a light, graceful white flower is wanted, "Hamburg Late White" cannot be surpassed.

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All of the above and many others are fully described in our current Wholesale List, January to June, which will be mailed upon request only to persons engaged commercially in Horticulture.

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3 yr. extra bushy, from cuttings.....	18"-24"	\$15.	\$140.
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The plant grows 6 feet and over, and the blooms fairly cover the bush.

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	10	100
Abella Rupestris.... 6"-8"	\$1.75	\$15.
Althea, Banner (Hibiscus)		
4'-5'	1.75	14.
3'-4'	1.20	10.
2'-3'	.90	8.
1'-1½'	.60	5.
Bicolor		
4'-5'	1.70	14.
3'-4'	1.20	10.
2'-3'	.90	8.
1'-1½'	.60	5.
Double Red.....		
4'-5'	1.70	14.
1'-1½'	.60	5.
Jeanne d'Arc.....		
4'-5'	1.70	14.
2'-3'	.90	8.
1'-1½'	.60	5.
Double Pink.....		
4'-5'	1.70	14.
3'-4'	1.20	10.
1'-1½'	.60	5.
Buddleia.		
Variabilis Veitchiana		
1000, \$125 3'-3½'	1.75	15.
1000, \$90 2'-3'	1.25	10.
From 3-in pots,		
1000, \$45 12"-18"	.75	5.
Variabilis Magnifica.		
1000, \$100 2'-3'	1.50	12.
From 2½" pots,		
1000, \$50	.80	6.
Deutzia.		
Crenata rosea plena.		
4 yr..... 5'-6'	1.50	12.
2 and 3 yr.... 3'-4'	1.25	10.
1 yr..... 12"	.60	4.
Gracilis		
15"-18"	1.00	8.
12"-15"	.75	6.
10"-12"	.60	4.
rosea		
2'-2½'	1.50	12.
1½'-2'	1.25	10.
10"-12"	.60	4.
Lemoinei		
2'-3'	1.50	12.
1½'-2'	1.25	10.
1'-1½'	.85	7.

	10	100
Pride of Rochester.		
4 yr., bushy.... 5'-6'	1.75	14.
4'-5'	1.25	11.
3'-4'	1.00	9.
2'-3'	.85	7.50
10"-12"	.50	4.
Diervilla (see Weigela)		
Euonymus Japonica.		
18"-24"	1.25	10.
15"-18"	1.00	8.
4'-5'	.60	5.
4"-5"	.60	5.
Forsythia Fortunei.		
2'-3'	1.00	8.
12"-18"	.75	6.
Viridissima		
4'-5'	1.75	15.
3'-4'	1.50	12.
3 yr..... 2'-3'	1.25	10.
2 yr..... 2'-3'	1.00	8.
18"-24"	.75	6.
Hydrangea.		
arborescens gr. alba.,		
Transpl. 3 yr.. 3'-4'	1.75	15.
arborescens gr. alba 3'-4'	1.50	12.
2 yr..... 2'-3'	1.25	10.
2'-2½'	1.10	9.
paniculata gr., 3 yr.,		
cut back transpl. 3'-4'		14.
transpl., 3 yr.... 2'-3'		12.
2 yr..... 2'-3'		10.
transpl., 2 yr.... 18"-24"		9.
3 yr..... 12"-18"		7.50
Lonicera.		
Tatarica, Pink, 3 yr. 5'-6'		10.
Red, 3 yr..... 3'-4'		10.
2 yr..... 2'-3'		8.
1 yr..... 12"-18"		6.
Philadelphus.		
Coronarius, Single. 5'-6'	1.50	12.
4'-5'	1.25	10.
3'-4'	1.00	8.
12"	.60	5.
Spiraea.		
Anth. Waterer, 3 yr. 3' -	2.00	15.
1½'-2'	1.50	12.

	10	100
bushy, 3 yr.... 12"-15"	1.30	11.
transpl. & bushy 9"-12"	1.10	9.
6"-9"	.75	6.
Blue (Caryopteris		
Mastacanthus). 12"-18"	.75	6.
Bridal Wreath		
(Prunifolia) .. 2'-3'	1.50	12.50
3'-4'	1.25	10.
Frobeli		
3'-3½'	1.10	9.
2½'-3'	.85	7.
Reevesii		
3'-4'	1.50	12.
2'-3'	1.25	10.
Van Houttei, 3 yr. 4'-5'	1.50	12.
3 yr..... 3'-4'	1.25	10.
2 yr..... 3'-4'	1.10	9.
1 yr..... 2'-3'	.90	7.50
Viburnum.		
opulus sterile.... 2'-2½'	1.25	10.
1½'-2'	.90	8.
Tomentosum var.		
plicatum, bushy.		
6 yr....each \$1 4'-5'	9.00	
4 yr....each 50c 4'-5'	4.50	
3'-4'	2.50	20.
2½'-3'	2.00	15.
A magnificent block { 2'-2½' 1.50 12.50		
{ 12"-18" 1.00 8.		
From 3 in. pots	.60	5.
Weigela.		
Candida, 4 yr.... 5'-6'	1.75	15.
3'-4'	1.50	12.
12"-18"	.85	7.
Eva Rathke..... 4'-5'	1.75	15.
3'-4'	1.50	12.
2'-3'	1.25	10.
18"-24"	.90	8.
12"-18"	.80	7.
Rosea, 3 yr..... 5'-6'	1.75	15.
4'-5'	1.50	12.
3'-4'	1.25	10.
2 yr..... 18"-24"	.90	8.
Variegated		
4'-5'	1.50	12.
18"-24"	.90	8.

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8 to 9	\$16.00 per case of 280	10 to 11 . . .	\$16.00 per case of 150
8 to 10	\$16.00 per case of 250	11 to 13 . . .	\$16.00 per case of 130
Baby Cases, 7 to 9, at \$7.00 per 100			

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THE LILY HOUSE

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ROTTERDAM

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toil, we ought to blame the culture, not the soil."—Pope.

Adiantums

Pot adiantums that have been resting for a few weeks can now be overhauled and where necessary, repotted. Large sized plants will carry for several years in the pots if occasionally fed with liquid manure, but smaller sizes are liable to become starved if not shifted, and furthermore there is more or less danger of their drying out and losing much of their foliage. One severe drying off is generally sufficient to ruin the appearance of any adiantums and this is most liable to occur with the smaller plants. Be careful in watering for a few weeks and keep them in a rather close and humid atmosphere and they will soon start off new. Large plants can be divided, but these divided portions do not give as satisfactory returns as younger plants potted on. While the adiantums take kindly to soil containing considerable leaf-mold and this is particularly good for young stock, larger plants want something heavier, good pasture loam with some thoroughly decomposed manure added, and a good dash of sand will grow excellent plants for any kind of use.

Bulb Stock

With Easter only two weeks off we must be on the watch in order to have all your bulb stock in first class shape. There will be a lot of moving around from a hot temperature to a colder one, or the reverse. This is the time that the grower is put to his wits' ends, so as to have this kind of stock just right. Look them over two or three times a day for water. The slower bulb stock is allowed to come along for Easter the better the flowers will be. For all those that are well advanced, a place that is away from the sun and runs at about 40 degrees will keep them practically at a standstill. Don't overlook staking any bulbs that tend to flop around. About the first of April will be time enough to do any make-up given in pans, etc. See that all the pots and pans are given a good washing before the last week.

Camellias

These make a very fine plant for the holiday trade. Camellias that are wanted in bloom by Christmas should by this time be started into new growth. They can be given about 50 degrees at night. Those that need repotting can be given a shift now. A good compost is fibrous soil 4 parts, leaf mold two parts, well decayed manure one part, and some sand. They should have abundance of water, especially in their growing season, but soil must not be kept in a soaked condition. The plants require a shaded house during the summer. They are much more easily managed under glass than when put in the open. When they have just fully taken a hold of the new compost they will need more and more water with lots of syringing overhead. Do not keep too close together, but give enough of room so the light and air will reach all around them.

Cattleyas and Laelias

At this time and as the season advances such Cattleyas as Schroederac, Mendelii, Mossiae and gigas as well as Laelia purpurata, majalis and crispa, will require attention in the way of ventilation which should be very carefully regulated. Shading from the middle of March onward until fall should not be neglected. Use slat roller blind for shading, which gives the plants a certain amount of direct sunlight without damaging the foliage. This is better than a complete shade on the glass as when there is a long spell of dull weather the plants can then be exposed to full light. Although they are fond of plenty of air, all cold draughts or sudden changes should be avoided. Remove all thrips and scale by frequent sponging. All these that have been potted or top dressed should be frequently syringed, but it must be borne in mind that over-watering at this season when the roots are inactive is very injurious, but later on when they take hold of the new compost they will want plenty of it. Syringe on all good days.

Easter Lilies

Plants intended for Easter should have a sunny bench and plenty of room between them. The sun becoming stronger will necessitate more attention as regards waterings. Each plant should have a daily inspection. Ventilation serves the double purpose of keeping the right temperature and at the same time supplying a circulation of pure air. Although Easter is now near at hand much of the advice extended in previous paragraphs may yet be followed to good purpose. Any lilies more backward, but showing rapidly swelling buds and lengthening stem will need a high temperature and much regular sprinkling to bring them in line with the rest of the Easter stock. A short week of continued forcing in from 65 to 70 degrees of heat will bring these to a point when a gradual cooling off will be in order. Lilies already showing opening flowers and white buds are ready to go to a cool shady place, where they will carry through in perfect condition until the Easter trade begins.

Reminders

Lilies may be held back by placing in a cool shed where there is no dust.

Pot up the earlier started caladiums and cannas and give them a slight bottom heat to start with.

Sow aster seed for a late batch of plants about the end of the month and keep them cool right along.

Transplant seedling zinnias before they get crowded in the seed boxes or they will run early to flower and be useless.

Cyclamens potted as recently advised need all the light possible now, and as the roots get well through the soil plenty of water to prevent check to growth.

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thus afforded for giving a very practical and by no means insignificant turn to their friendly sentiments towards HORTICULTURE at this time by placing every possible dollar's worth of their spring trade with those firms whose offers appear in these pages. In no other way can our readers so effectively encourage HORTICULTURE and promote its prosperity as by patronizing HORTICULTURE's advertisers whenever possible and being thoughtful always to tell them why. "Do it now."

Winter lingers most exasperatingly "in the lap of spring" and it becomes more and more apparent that we are to have a very late and very brief planting season.

According to the almanac the proper time for garden work has arrived but, from the latitude of New York northward, at least, the soil is still frozen deep, stretches of snow whiten the landscape, blustering arctic breezes are blowing and he would be foolish indeed who would yet cast off his winter overcoat. Yet, under these unpropitious conditions the dealers in seeds and roots are already experiencing a demand such as never before known for garden seeds and implements and it seems utterly impossible that when the real spring rush opens up they can come anywhere near to satisfying the demand that is inevitable. Many stocks are already absolutely unobtainable at wholesale, regardless of price. Never before has the seed trade been confronted with such a situation as exists at present and each day the problem grows more and more of a puzzle.

Success and its respon- sibilities

Of exhibition news there is almost no end in sight this week. With the material now on our desk we could fill a paper several times bigger than this issue of HORTICULTURE but we see no good reason to try to crowd into this one number every available line concerning these big flower shows. It is quite probable that we have provided our readers with as much as they will care to consume at one meal and no doubt they will feel perfectly satisfied to have something held in reserve for next week's digestion or even later, for the exhibition question is fast assuming proportions that are pretty weighty and far reaching. These spring shows have taken their place permanently, we think, as recognized seasonable attractions and with their popularity thus assured the old bugbear of possible financial loss is well removed. As everybody knows, we have yet much to learn in exhibition promotion and management but we have made unexpectedly big strides of late and further advancement is to be expected. Should any of the readers of HORTICULTURE have ideas on this subject which they would like to express or present for consideration and discussion, HORTICULTURE's columns are freely open for such. It will be our own fault if the active control of these great business promoting enterprises should pass into the hands of other than the horticultural interests. But if we are to enjoy the great harvest now ripening after so many years of labor we must keep moving on and up. What can you suggest?

Do it
now

A perusal of our advertising columns this week will disclose a gratifying activity in all departments of commercial horticulture. Enterprising dealers are alert and ready to open the spring trade with commendable vigor and we would here take opportunity to urge upon our readers the privilege

THE NEW YORK SHOW

The Fifth "International" has come and gone, leaving a record of which all who were entrusted with its positions of responsibility may feel proud. It is an easy matter to alight from a car, hand out a ticket, join the throng surging along the aisles and—criticise. "This ought to be thus," "it doesn't size up with last year," etc., etc. HORTICULTURE has so sincere a sympathy for secretary, committees, manager, judges and all others who are a part of the indispensable machinery of such an undertaking that it here and now disclaims any disposition or desire to find fault with what has been done, but, however, taking the liberty to suggest some times on which improvement might possibly be made in the future.

To begin with, the show was, in some respects, too similar to that of last year. Many of the most important exhibits, competitive and trade, were placed in the same location as last year—no doubt, in compliance with the wishes of the exhibitors. Thus the valuable factor of novelty was minimized. Again, there was a very noticeable absence of the large material which is so necessary to impart strength and dignity and impressive "sky line" in an exhibition so vast. Further, we should like to see such exhibits as the rose gardens, rock gardens and others of like character more distinctly bounded and isolated from the jungle of many dissimilar and unharmonizing exhibits about them. As we have already said the foregoing is not intended as criticism but only as suggestive comment. The truth is that the vast floors of the Grand Central Palace are already too small for the dimensions to which the International Flower Show has attained.

The outstanding spectacular features of the show were the rose gardens and cut roses, the flowering plants arranged in garden effect, the rock gardens and the orchid groups. In the estimation of the public the roses plainly took precedence over everything. The flowering plant group prizes brought out six exhibits of dazzling floral exuberance, and much ingenuity in color arrangement, fountain and cascade effect was shown. One of these gardens which in the judges' opinion did not measure up to the qualities of its competitors in that particular class was later chosen by a committee of society ladies as winner of the sweepstakes' cup as the most artistic and beautiful exhibit in the show. It was mainly planted to daffodils and pale yellow Ghent azaleas, surrounded by a white picket fence over which white clematis trailed, and *Narcissus poeticus* clustered at the base. E. Fardel, gard. for Mrs. Booth, was the artist. The entry by P. W. Popp, which won first prize, is shown in our illustration. It was a beautiful conception in color harmony.

F. R. Pierson's cut rose exhibit was a prime attraction. There were nearly 1,000 blooms, the varieties shown be-

ing Killarney Queen, Ophileta, Mrs. Sawyer, Francis Scott Key, White Killarney, Richmond and Hoosier Beauty. The Keys were the finest blooms of the variety we have ever seen.

The Department of Parks contributed an extensive group of foliage and economic plants, cacti and flowering plants, amongst the latter being fine specimens of *Jasminum primulinum*. The cactus group was undoubtedly the best ever placed on exhibition in this country. A gold medal was awarded to the Department.

The Tea Garden was crowded continually with society ladies and a good sum was netted in this enterprise for the benefit of the Red Cross.

LIST OF AWARDS.

PLANTS IN FLOWER. PRIVATE GROWERS.
3 Acacias, 1st, F. E. Lewis, Ridgefield, Ct., gard. J. W. Smith.
Specimen Acacia, 1st, Mrs. F. A. Constable, Mamaroneck, N. Y., gard. Jas. Stuart; 2d, F. E. Lewis.
25 Amaryllis, 1st, Howard Gould, Port Washington, L. I., gard. W. Vert; 2d, Mrs. F. A. Constable.
12 Amaryllis, 1st, Howard Gould; 2d, Mrs. Eugene Meyer, Jr., Mt. Kisco, N. Y., gard. Chas. Ruthven.
Specimen Azalea Indica, white, 2d, W. B. Thompson, Yonkers, N. Y., gard. R. M. Johnston; pink or rose, 1st, Mrs. J. C. Brady, Gladstone, N. J., gard. J. J. Walker; 2d, Percy Chubb, Glen Cove, L. I., gard. Robert Jones; any other color, 2d, W. B. Thompson.
Specimen Bougainvillea, 1st, F. E. Lewis.
6 Cinerarias, 1st, Pulitzer Estate, Manhasset, L. I., gard. F. Hitchman; 2d, Mrs. N. Straus, Mamaroneck, N. Y.
6 Cineraria stellata, 1st, W. B. Thompson; 2d, A. Lewisohn, Ardsley, N. Y., gard. J. Canning.

Specimen Cineraria stellata, 1st, W. B. Thompson; 2d, A. Lewisohn.
25 Cyclamen, 1st, Mrs. F. A. Constable, a superb exhibit; 2d, A. Lewisohn.
12 Cyclamen, 1st, A. Lewisohn; 2d, Mrs. F. A. Constable.
Specimen Chorizema, 1st, F. E. Lewis; 2d, A. Lewisohn.
Specimen Erica, 1st, F. E. Lewis; 2d, H. M. Telford, Tuxedo, N. Y., gard. James Tansey.
Specimen Cytisus, 1st, D. G. Reid, Irvington, N. Y., gard. A. W. Golding; 2d, G. D. Barron, Rye, N. Y., gard. James Linane.
Specimen Heliotrope, 1st, Percy Chubb; 2d, Mrs. F. A. Constable.
Specimen Hydrangea, 1st, J. B. Cobb, Stamford, Ct.
6 Lilac, 1st, Mrs. H. Darlington, Mamaroneck, N. Y., gard. P. W. Popp; 2d, G. D. Barron.
Specimen Marguerite, 1st, W. B. Thompson.
12 Primula malacoides, 1st, Pulitzer Estate; 2d, D. Guggenheim, Elberon, N. J.
12 Primula obconica, 1st, Percy Chubb; 2d, Pulitzer Estate.
3 Rhododendrons, 1st, A. Lewisohn.
6 Schizanthus, 1st, W. B. Thompson, also special gold medal recommended for culture.
Specimen Schizanthus, 1st, W. B. Thompson.
6 Spiraea or Astilbe, 1st, F. E. Lewis; 2d, Howard Gould.
Specimen Wistaria, 1st, James MacDonald, Flushing, L. I., gard. R. Hughes; 2d, F. E. Lewis.
Any other specimen flowering plant, 1st, Mrs. H. McK. Twombly, Convent, N. J., gard. Robert Tyson, with a specimen *Imantophyllum*, which was one of the finest plants in the hall; 2d, Mrs. J. C. Brady, Gladstone, N. J.
Flowering plants and bulbs arranged for effect, 300 sq. ft., 1st, Mrs. H. Darlington (see illustration); 2d, W. B. Thompson; 3d, F. E. Lewis. All of these groups were glorious. There were six in competition.

PALMS AND FOLIAGE PLANTS. PRIVATE GROWERS.

Arceia Intescens, 1st, Mrs. F. A. Constable.



NEW YORK FLOWER SHOW.

Flowering Plants and Bulbs arranged for effect. Exhibit of Mrs. H. Darlington, P. W. Popp, gard. Rocks and Cascade with Aquatic Pool were a very attractive feature but are not adequately shown in the picture.

2 Bay Trees, 1st, D. G. Reid; 2d, Mrs. J. H. Flagler, Greenwich, Ct., gard. W. Whitton.
 12 Crotons, 1st, W. B. Thompson.
 3 Dracaenas, 1st, W. B. Thompson.
 Specimen Dracaena, 1st, W. B. Thompson; 2d, Mrs. F. A. Constable.
 Kentia Forsteriana, 1st, Mrs. F. A. Constable.
 Phoenix Roebelinii, 1st, Mrs. F. A. Constable; 2d, Mrs. Pauline Boettger Estate, Riverdale, N. Y.
 Specimen Palm, other than above, 1st, Mrs. F. A. Constable.
 6 Plants, exclusive of palms, 1st, W. B. Thompson.
 Specimen foliage plant other than above, 1st, W. B. Thompson.
 Group of foliage plants arranged for effect, 1st, F. E. Lewis; 2d, W. B. Thompson.

FERNS. PRIVATE GROWERS.

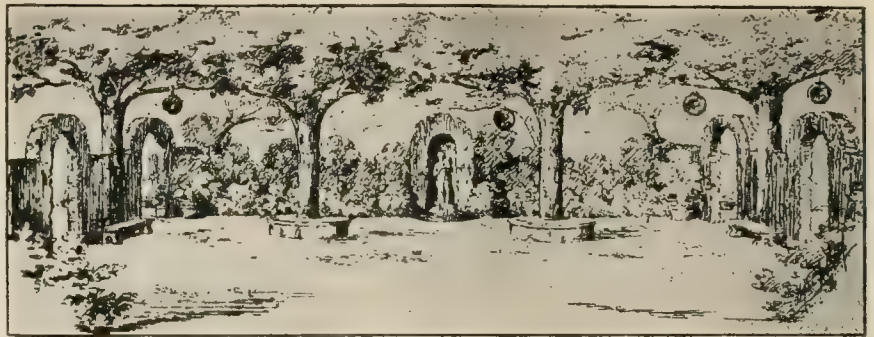
Adiantum Farleyense, 1st, Mrs. H. McK. Twombly.
 Adiantum cuneatum, 1st, J. B. Cobb, Stamford, Ct., gard. A. Alins; 2d, W. B. Thompson.
 Specimen Adiantum, any other variety, 1st, Mrs. Oliver Hoyt, Stamford, Ct.; 2d, Geo. E. Baker, Tuxedo Park, N. Y.
 Cibotium Schiedel, 1st, Mrs. F. A. Constable; 2d, J. B. Cobb, Stamford, Ct.
 Stag's Horn Fern, 2d, Mrs. J. C. Brady.
 Any other Fern, 1st, J. B. Cobb; 2d, G. D. Barron.

BULBOUS PLANTS. PRIVATE GROWERS.

3 pans Hyacinths, white, 1st, Westbrook Garden, Oakdale, L. I., gard. C. W. Knight; 2d, Mrs. Payne Whitney, Manhasset, L. I., gard. Geo. Ferguson. Pink or red, 1st, James A. MacDonald; 2d, H. M. Tilford. Light blue, 1st, Westbrook Garden; 2d, Mrs. Payne Whitney. Dark blue or purple, 1st, James A. MacDonald; 2d, Mrs. Payne Whitney. Yellow, 1st, James A. MacDonald; 2d, Mrs. Payne Whitney.
 12 Lilies, 1st, Mrs. J. Murray Mitchell, Tuxedo Park, N. Y., gard. Thomas Wilson; 2d, Percy Chubb.
 3 pans Lily of the Valley, 1st, Mrs. Payne Whitney.
 12 pans Narcissus, single trumpet, 1st, Mrs. Payne Whitney.
 6 pans Narcissus, short trumpet, 1st, Mrs. Payne Whitney.
 12 pans single early Tulips, 1st, Mrs. Payne Whitney; 2d, Mrs. A. M. Booth, Great Neck, L. I., gard. E. Fardel.
 6 pans single early Tulips, 1st, Mrs. Payne Whitney; 2d, Mrs. H. Darlington.
 12 pans Darwin or Cottage Tulips, 1st, Mrs. Payne Whitney; 2d, James A. MacDonald.
 Display of bulbs arranged for effect, 200 sq. ft., 1st, Mrs. A. M. Booth; some fine Amaryllis in this group; 2d, Mrs. H. Darlington; also a grand group from D. G. Reid, Irvington, gard. A. W. Golding.
 25 pans Darwin, Breeder, Cottage and May flowering Tulips, 1st, Mrs. H. Darlington.

ORCHID PLANTS. PRIVATE GROWERS.

Group arranged for effect, 1st, Arthur N. Cooley, Pittsfield, Mass., gard. Oliver Lines; 2d, Clement Moore, Hackensack, N. J., gard. J. P. Mossman. Both of these orchid groups were simply superb.
 6 plants, 1st, Col. H. H. Rogers, Tuxedo Park, N. Y., gard. P. Venezian; 2d, Mrs. I. N. Seligman, Irvington, N. Y., supt. E. Dodd.
 Brasso-Cattleya or Brasso-Laelia, 1st, Col. H. H. Rogers; 2d, Clement Moore.
 Specimen Cattleya Mossiae, 1st, Louis Strauss, Bay Ridge, N. Y.; 2d, Col. H. H. Rogers.
 Cattleya Mendell, 1st, Col. H. H. Rogers.
 Cattleya Schroederiae, 1st, Louis Strauss; 2d, Col. H. H. Rogers.
 Specimen Cattleya, any other variety, 1st, Mrs. I. N. Seligman; 2d, Samuel Untermyer, Yonkers, N. Y., gard. Charles Hurn.
 12 Cypripediums, 1st, Samuel Untermyer. Specimen Cypripedium, 1st, Louis Strauss.
 6 Dendrobiums, 1st, Clement Moore; 2d, Col. H. H. Rogers.
 Dendrobium nobile, 1st, Col. H. H. Rogers.
 Dendrobium, any other variety, 1st, Louis Strauss.
 Cattleya-Laelia, or Laelio-Cattleya, 1st, Samuel Untermyer; 2d, Mrs. I. N. Seligman.
 Specimen Laelia, 1st, Col. H. H. Rogers.
 Miltonia, 1st, Col. H. H. Rogers; 2d, Louis Strauss.
 Odontoglossum, 1st, Louis Strauss; 2d, Col. H. H. Rogers.
 Oncidium, 1st, Louis Strauss; 2d, W. B. Thompson.
 Phalaenopsis, 1st, Mrs. F. A. Constable; 2d, Col. H. H. Rogers.



VIEW IN THE TEA GARDEN.
New York Flower Show

Vanda, 1st, Samuel Untermyer.
 Specimen any other variety, 1st, Louis Strauss; 2d, Col. H. H. Rogers.

CUT ORCHIDS. PRIVATE GROWERS.

Table arranged for effect, 1st, D. G. Reid; 2d, Wm. H. Walker, Great Barrington, Mass., gard. Thos. Page.

ROSES IN POTS AND TUBS. PRIVATE GROWERS.

Display arranged for effect, 1st, W. B. Thompson; 2d, F. E. Lewis.
 6 climbing or rambler, 1st, F. E. Lewis. Specimen red climber, 1st, F. E. Lewis; 2d, Percy Chubb. Pink, 1st, Percy Chubb; 2d, F. E. Lewis. White, 1st, F. E. Lewis. Yellow, 1st, F. E. Lewis.

CUT ROSES. PRIVATE GROWERS.

12 American Beauty, 1st, J. B. Duke, Somerville, N. J., supt., A. A. MacDonald; 2d, E. D. Morgan, Westbury, L. I. Hadley or Hoosier Beauty, 1st, Mrs. Payne Whitney; 2d, Mrs. J. C. Brady. Mrs. Charles Russell, 1st, J. B. Duke; 2d, W. B. Thompson. Pink Killarney, 1st, Mrs. J. C. Brady. White Killarney, 1st, Mrs. J. H. Flagler; 2d, Mrs. J. C. Brady. Radiance, 1st, W. E. S. Griswold, Lenox, N. Y., gard. A. J. Loveless; 2d, Jas. A. MacDonald. Sunburst, 1st, Mrs. Payne Whitney; 2d, W. E. S. Griswold. Mrs. Aaron Ward, 1st, Mrs. J. C. Brady. Ophelia, 1st, Mrs. F. A. Constable; 2d, Mrs. Payne Whitney. Any other pink, 1st, A. Lewisohn; 2d, Mrs. Payne Whitney. Any other yellow, 1st, Mrs. J. C. Brady. Vase of 25, one or more varieties, 1st, W. B. Thompson; 2d, Mrs. Payne Whitney.

CARNATIONS. PRIVATE GROWERS.

25 White, 1st, D. G. Reid; 2d, W. E. Reis, Greenwich, Ct., gard. Robt. Grunnett. Flesh pink, 1st, D. G. Reid; 2d, Mrs. S. Hermann, Tarrytown, N. Y. Light pink, 1st, Mrs. E. C. Converse, Greenwich, Ct., gard. Wm. Graham; 2d, W. E. Reis. Dark pink, 1st, S. M. & A. Colgate, Orange, N. J.; 2d, J. B. Cobb. Scarlet, 1st, W. E. Reis; 2d, Mrs. S. Hermann. Crimson, 1st, D. G. Reid; 2d, Mrs. J. C. Brady. White variegated, 1st, Mrs. S. Hermann; 2d, D. G. Reid. Yellow variegated, 1st, Mrs. Payne Whitney; 2d, D. G. Reid. Vase arranged for effect, 1st, Percy Chubb; 2d, Howard Gould; 3d, D. G. Reid.

SWEET PEAS. PRIVATE GROWERS.

Display arranged for effect, 1st, Mrs. J. H. Flagler; 2d, Mrs. Chas. Bradley. 6 varieties, 1st, Howard Gould; 2d, F. E. Lewis. Vase arranged for effect, 1st, Howard Gould; 2d, W. E. Reis. Dinner table decoration, 1st, Mrs. Chas. Bradley; 2d, W. B. Thompson; 3d, D. G. Reid.

VIOLETS. PRIVATE GROWERS.

200 Single, 1st, Percy Chubb; 2d, Peter Hauck, East Orange, N. J., gard. Max Schneider.

MISCELLANEOUS CUT FLOWERS. PRIVATE GROWERS.

25 white Antirrhinum, 1st, Westbrook Gardens, Oakdale, L. I., gard. C. W. Knight.
 25 yellow Antirrhinum, 1st, Westbrook Gardens; grand spikes.
 25 assorted Antirrhinum, 1st, Mrs. J. H. Flagler; 2d, Percy Chubb; 3d, A. Lewisohn.
 Mignonette, 1st, Percy Chubb; 2d, Peter Hauck, Jr.

Display of Pansies, 1st, D. G. Reid; 2d, Mrs. E. S. Bayer, Mt. Kisco, N. Y., gard. A. Thomson.

Stocks, 1st, Percy Chubb; 2d, W. E. S. Griswold.

Wallflower, 1st, Mrs. E. S. Bayer; 2d, A. Lewisohn.

PLANTS IN FLOWER. COMMERCIAL GROWERS.

Specimen Acacia, 1st, Knight & Struck Co., New York.
 3 Cytisus, 1st, Madsen & Christensen, Wood Ridge, N. J.
 Hydrangeas arranged for effect, 1st, Frederick H. Dressel, Weehawken, N. J.
 6 Hydrangeas, 1st, F. H. Dressel.
 Specimen Hydrangea, 1st, F. H. Dressel.
 6 Marguerites, 1st, Madsen & Christensen.
 Rhododendrons arranged for effect, 1st, F. R. Pierson, Tarrytown.
 3 Rhododendrons, 1st, Bobbink & Atkins, Rutherford, N. J.
 25 Spiraea or Astilbe, 1st, Bobbink & Atkins.

Collection arranged for effect, 1st, Julius Roehrs Co., Rutherford, N. J. One of the finest efforts in the show. Exquisite taste shown in arrangement, and much rare material used.

Collection forced shrubs, 1st, Bobbink & Atkins. A nice collection.

Rock garden, 1st, A. N. Pierson, Inc., Cromwell, Ct.; 2d, Bobbink & Atkins; 3d, Julius Roehrs Co. All excellent. The winning entry was very natural and the use of the native Adiantum pedatum added much to its attractiveness.

PALMS AND FOLIAGE PLANTS. COMMERCIAL GROWERS.

Specimen Cycas, 1st, Bobbink & Atkins.
 12 Dracaenas, 1st, Bobbink & Atkins.
 Kentia Belmoreana, 1st, Marius Mutillod, Secaucus, N. J.
 Kentia Forsteriana, 1st, Marius Mutillod; 2d, Bobbink & Atkins.
 Phoenix Roebelinii, 1st, Marius Mutillod; 2d, Bobbink & Atkins.
 Specimen Palm other than above, 1st, Marius Mutillod.

MISCELLANEOUS PLANTS. COMMERCIAL GROWERS.

Bay Trees, pyramidal, 1st, Bobbink & Atkins; 2d, Marius Mutillod.
 Bay Trees, standard, 1st, Bobbink & Atkins; 2d, Marius Mutillod.
 Bay Trees, columnar, 1st, Bobbink & Atkins.
 Collection on Conifers, 1st, F. R. Pierson. Ivies, trained, 1st, Bobbink & Atkins.

FERNS. COMMERCIAL GROWERS.

Adiantum Farleyense, 1st, A. N. Pierson, Inc.
 Cibotium Schiedel, 1st, F. R. Pierson.
 Nephrolepis exaltata Bostoniensis, 1st, F. R. Pierson.
 Specimen Nephrolepis, any other variety, 1st, F. R. Pierson.
 Collection of Nephrolepis, 1st, F. R. Pierson. Finest group ever shown, comprising specimens of fifty different varieties.
 Specimen Fern, any other variety, 1st, F. R. Pierson.

BULBOUS PLANTS. COMMERCIAL GROWERS.

Lilium formosum, 1st, Julius Roehrs Co.
 Lily of the Valley, 1st, Wm. H. Siebrecht.
 Dutch bulb garden display arranged for effect, 1st, John Scheepers & Co., New York City. Very fine arrangement. Many new and rare varieties shown. Color scheme well done.

ORCHID PLANTS. COMMERCIAL GROWERS.

Group arranged for effect, 200 sq. ft., 1st, Julius Roehrs Co. Simply grand.
 Group, 100 sq. ft., 1st, Lager & Hurrell. Interesting variety.

Hybrid Cattleya, Brasso-Cattleya, Brasso-Laelia Cattleya or Sophro-Cattleya, 1st, Julius Roehrs Co., with Brasso-Cattleya Veitchii; 2d, Lager & Hurrell.

ROSES IN POTS AND TUBS. COMMERCIAL GROWERS.

Rose garden, 1st, F. R. Pierson. Better even than last year. See cover illustration; 2d, A. N. Pierson, Inc.

Specimen climbing red, 1st, F. R. Pierson; 2d, A. N. Pierson, Inc. Pink, 1st, F. R. Pierson; 2d, A. N. Pierson, Inc. White, 1st, A. N. Pierson, Inc.

Best new Rose not in commerce, 1st, F. R. Pierson, (Silver medal) for Rosalind, a deep pink sport from Ophelia.

CUT ROSES. COMMERCIAL GROWERS.

100 American Beauty, 1st, L. A. Noe, Madison, N. J.

100 Killarney Queen, 1st, F. R. Pierson. 50 American Beauty, 1st, L. A. Noe; 2d, F. R. Pierson.

50 Mrs. Charles Russell, 1st, F. R. Pierson.

50 Ophelia, 1st, F. R. Pierson; 2d, W. E. Jackson, West Summit, N. J.

50 Mrs. George Shawyer, 1st, A. N. Pierson, Inc.; 2d, F. R. Pierson.

50 Francis Scott Key, 1st, F. R. Pierson.

50 Pink Killarney, 1st, A. N. Pierson, Inc.

50 White Killarney, 1st, A. N. Pierson, Inc.

50 Richmond, 1st, F. R. Pierson.

50 Sunburst, 1st, A. N. Pierson, Inc.; 2d, F. R. Pierson.

50 Mrs. Aaron Ward, 1st, A. N. Pierson, Inc.; 2d, F. R. Pierson.

50 Any other white, 1st, L. A. Noe.

50 Any other pink, 1st, L. B. Coddington, Murray Hill, N. J.; 2d, W. E. Jackson.

50 Any other red, 1st, A. S. Burns, Jr., Spring Valley, N. Y., with Hadley. The finest vase of roses in the show; 2d, F. R. Pierson.

25 Any undisseeded variety, 1st, F. R. Pierson, with Rosalind.

Vase of best new Rose not in commerce January 1, 1917, 1st, F. R. Pierson.

Display of cut roses arranged for effect, F. R. Pierson. This exhibit contained nearly 1000 magnificent blooms shown in rich vases of great value. It was distinctly a triumph.

Table decoration, 1st, A. T. Bunyard, 413 Madison Ave., New York City; 2d, Max Schling, 22 W. 59th St.; 3d, Kottmiller, 48th and Madison Sts. All good.

CARNATIONS. COMMERCIAL GROWERS.

100 White, 1st, Cottage Gardens Co., Queens, N. Y.

100 Flesh pink, 1st, Charles Weber, Lynbrook, N. Y.

100 Light pink, 1st, Cottage Gardens Co.

100 Dark pink, 1st, Cottage Gardens Co.

100 Scarlet, 1st, Cottage Gardens Co.; 2d, M. Matheron, Baldwin, N. Y.

100 Crimson, W. D. Howard, Milford, Mass.

100 Varigated white, 1st, Emil F. Lieker, Lansdowne, Pa.

50 Light pink, 1st, Herman Schwarz, Central Park, L. I.; 2d, Alfred Demeusy, Brooklyn.

50 Dark pink, 1st, G. F. Neipp, Chatham, N. J.; 2d, Charles H. Totty, Madison, N. J.

50 Red, 1st, W. R. Nicholson, Framingham, Mass.; 2d, Chas. H. Totty.

50 White, 1st, Chas. H. Totty.

50 Any new variety not in commerce, Silver medal to W. R. Nicholson for crimson seedling.

SWEET PEAS. COMMERCIAL GROWERS.

100 Bicolor, 100 white, 100 cream pink, 100 light lavender, 100 pink or salmon, S. Van Riper, Dundee Lake, N. J., 1st in all five classes.

Display arranged for effect, 1st, Chas. A. Zvolanek, Bound Brook, N. J.; 2d, F. H. Polbos, Sea Cliff, L. I.

MISCELLANEOUS CUT FLOWERS. COMMERCIAL GROWERS.

Mignonette, 1st, August Sauter, Nyack, N. Y.; 2d, W. R. Nicholson.

Grand Sweepstakes prize for most artistically arranged exhibit in the show, Mrs. A. M. Booth, gard. E. Fardel.

International Flower Show silver trophy for best exhibit, won by A. Lewisohn, Ardley, N. Y.

Table decoration, competition limited to hotels only, 1st, Vanderbilt Hotel.

The "Sun" prize, for exhibit most helpful to amateur gardeners, won by Max Schling.

H. Fred Byxbee, Norwalk, Conn., certificate of merit for Daphne odora. E. F. Hutton, Bayshore, gard. E. Yeandle, honorable mention for Freesias. Alois Frey, silver medal for Rainbow Freesias. Jas. A. MacDonald, gard. R. Hughes, certificate of merit for seedling carnation.

Exhibitors in the Trade Section

All departments of the trade and allied interests were well represented, many having spacious and elaborately decorated booths.

Following is a complete list:

F. R. Pierson Co., Tarrytown, a very attractive enclosure which was constantly surrounded by a throng of people. Roses were displayed here in great profusion.

Bobbink & Atkins, Rutherford, N. J., miscellaneous nursery stock.

Julius Roehrs Co., Rutherford, N. J., a handsomely decorated booth in charge of J. Muller.

G. E. M. Stumpp, a very elaborate apartment in which object lessons in floral arrangement were numerous.

Max Schling. Mr. Schling had two very large reservations, in one of which he had artists showing the different ways in which flowers may be made useful and attractive in the home.

John Scheepers & Co., bulb specialties.

Sharonware Workshop. Concrete Garden Furniture.

C. H. Totty, Madison, N. J., new roses, chrysanthemums and other specialties.

Robert Craig Co., decorative plants.

F. A. Bartlett Co., tree specialists.

Knight & Struck Co., ericaceous plants.

G. E. M. Stumpp, hardy evergreens.

The Cloche Co., plant protectors.

Vaughan's Seed Store, bulbs, seeds, etc.

Lager & Hurrell, orchids, etc.

Stumpp & Walter Co., a very extensive show of seasonable stock.

The Country Gentleman.

Zoller Studios.

Jos. A. Manda, rustic booth daintily decorated with orchids.

J. C. Kraus Cast Stone Works, garden furniture.

Weeber & Don, a brilliant display of bulbs in flower.

Maurice Fuld, plants and seeds, in charge of a dainty lassie.

American Seed Tape Co.

R. J. Irwin, trade plants and flowers.

Metropolitan Material Co. office.

Cromwell Gardens. Very extensive display of plants and flowers, continuously crowded with customers and admirers.

Lord & Burnham Co., conservatory complete, with garden setting.

Hartmann Sanders Co., garden furniture, pergolas, etc.

Pierson U-Bar Co., illuminated pictures of their structures.

W. H. Lutton Co. Greenhouse complete. Sam. Burns in charge.

Kroeschell Bros. Co., office; Fred Lautenschlager in charge.

Hitchings & Co., greenhouse complete.

Fulper Pottery Co., decorative pottery, vases, etc.

Doubleday, Page & Co., publications.

Davey Tree Expert Co., office, and tree surgery literature.

A. T. Boddington, a richly adorned sweet pea booth, bordered with pansies.

J. M. Thorburn & Co., a large booth enclosed with white paling, with general display.

A. T. De La Mare Co., horticultural literature.

Weathered Company. Complete conservatory.

Mathews Mfg. Co. Garden furniture, pergolas, etc.

King Construction Co. Greenhouse complete, booth in charge of H. S. de Forest.

The following were on the balcony floor:

Miss M. Lewis, interior decorations.

George L. Stillman, dahlias.

J. B. Lippincott Co., publishers.

N. Y. Rustic Works. An extensive and excellent display.

W. F. Leary, tree-spraying apparatus.

Coldwell Lawn Mower Co., Newburgh. Coldwell lawn mowers.

Spencer Heating Co. Boilers.

Peterson, Sinclair & Miller. Engineers.

Carter's Tested Seeds. Rex Humus.

Richmond Cedar Works. Plant tubs.

I. J. Stringham. Bees and honey.

Benj. Hammond, Beacon. A fine display of his well known specialties in charge of Walter Mott.

Shawnee Mower Co. Machinery.

Johnston Heating Co. Hot water circulator in operation.

Mogul Co. Waterproof and preservative materials.

A. L. Randall, Chicago. Florists' supplies, etc.

Walworth Mfg. Co. Heating specialties.

Bon Arbor Chemical Co. Plant food.

G. E. M. Stumpp. Artistic stone ware, fountains, etc.

Schloss Bros. Ribbons.

Geo. W. Clark Co. Irrigation devices.

Reade Mfg. Co. Insecticides.

S. P. Townsend & Co. Lawn mowers.

Alphano Humus.

Miller & Doing. Plant boxes.

B. Hammond Tracy. Gladioli.

NOTES.

The amaryllises from Howard Gould were a splendid strain.

Robert Craig Co.'s Nephrolepis "Norwood" was honored with a silver medal.

J. R. de Lamar showed some choice and beautiful groups, not for competition. A gold medal was awarded for his *Acacia pubescens*.

Among the distinguished visitors at the exhibition were ex-Ambassador James W. Gerard, Andrew Carnegie and Major General Wood.

There was a good exhibit of flowering begonias by Hon. P. M. Warburg, gard. Frank C. Luckenbacher, which does not appear in the prize list.

Brasso-Cattleya Jean d'Arc by Clement Moore, which was awarded a gold medal, was sold for the benefit of the American fund for French wounded.

The Roehrs 300 ft. group of flowering and foliage stove and greenhouse plants arranged for effect was not excelled for quality and tasteful arrangement by any exhibit in the hall.

Hyacinth Gounod, light blue, shown in Charles Knight's group was one of the finest novelties in its class. The White L'Innocence in this exhibit carried the best spikes in the show.

The Horticultural Society of New York and the New York Botanical Garden had jointly an elaborately furnished rest room which was a favored resort for the lady visitors especially.

Among the sensational orchid exhibits were the two hybrids, Jean d'Arc and Gen. Pershing, from Clem. Moore, both of which were auctioned for patriotic charitable purposes; Cymbidium Venus from A. N. Cooley, gard. Oliver Lines, Pittsfield, Mass., carrying a spike of fourteen flowers; Cattleya Trianae Elm Court var. from Elm Court Farm, Lenox, Mass., gard. F. Heeremans.

ELVES DANCE OUT OF A NINE-FOOT BASKET OF FLOWERS.

There was something besides opulence and eloquence and general horticultural good fellowship at the banquet tendered by the New York Florists' Club to the Executive Board of the Society of American Florists' at the Biltmore on Saturday night. With a genius for the propagation of novelties, the committee demonstrated that by careful greenhouse methods it is possible to grow two dancing sprites in a basket of flowers.

At the proper stage of the banquet it was thought proper to honor R. C. Kerr, President of the Society of American Florists', by presenting him with some flowers. A signal was given and a nine-foot basket, mounted on wheels and gorgeously topped with the



rarest and most colorful blooms of spring, was rolled in and to a position in front of the guests' table.

A. L. Miller and Charles Schenck led the cheering that greeted the novelty and President Kerr had arisen to explain how he felt to be surrounded with so many well wishers when some one pulled a string and one side of the basket opened and Lily Lenora and Irma Komlossy skipped out and, with the grace of woodland elves, danced a floral number specially dedicated to the Society.

Then a thousand ballons with connecting strings released from somewhere rose to the ceiling. In each was a numbered slip. Two of the slips called for chests of silver.

Oh, yes, the New York Florists' Club knows how to have a good time and it isn't afraid to pay the bill.

—New York World.

THE ST. LOUIS SPRING SHOW

The Spring Flower Show of 1917 surpassed anything of the kind ever attempted in St. Louis and from all reports was a success financially. Thousands of people attended and the publicity committee were thus well rewarded for their labors. On entering the spacious Armory a beautiful scene met the eye. L. Jules Bourdet and his assistants created, as it were, a beautiful garden, the decorative scheme of pillars of natural bark and thousands of yards of wild smilax, making a charming setting. The floor and paths were bordered with bulbous plants. Plants sent by the Missouri Botanical Garden were beautiful in their profusion of colors. The Park Department had a splendid display. A beautiful electric fountain played in the centre of geraniums and other flowers and foliage plants. The display of Bourdet Floral Co. was superb. The orchid collection from Missouri Botanical Garden was remarkable. Lilies, azaleas and rhododendrons were wonderful. The Retail Association booth had as an attraction beautifully gowned ladies who paraded with huge floral hats and corsage bouquets of natural flowers. The table decorations were excellent and hard to judge. The carnation and rose displays were very good.

The trades display was extensive. Attractive special booths and exhibits were made by F. C. Weber, F. H. Weber, Grimm & Gorly, Mullanphy, J. W. Boerm, Ayres Floral Co., Joe Witek. Special displays were made by Scruggs Vandervoort & Barney, Stix Fuller & Baer, Poehlmann Bros., St. Louis Seed Co., A. L. Randall, C. Young & Sons and Vaughan's Seed Store. Trade exhibits by American Bulb Co., Burlington Willow Ware, Knight & Struck Co., Schloss Bros., Lion & Co.

List of Prizes.

Bourdet Floral Co., 1st prize for collection of Rhododendrons, 100 sq. ft.; specimen Rhododendron; 12 Spirea; collection of Rambler Roses, 75 sq. ft.; Dutch bulb display, 100 sq. ft.; group of Tulips, 50 sq. ft.; pink Tulips; scarlet Tulips; 12 Lilies; group of Lilies arranged for effect; specimen Nephrolepis Bostoniensis; 2d prize for collection of Azaleas, 100 sq. ft.; 3 Genistas; collection of Lilacs; white Tulips.

Wm. Schray & Sons, 1st for specimen Lilac; flowering plants arranged for effect, 100 sq. ft.; specimen Rose; white Hyacinths; blue Hyacinths; red and yellow Tulips; 12 Palms; Cocos plumosus; Kentia Belmoreana; Kentia Forsteriana; foliage plants staged for effect, 50 sq. ft.; Lemon tree; hanging basket; 2d for pink Tulips; Callas; Lilies; Specimen Calla; group of Lilies; Nephrolepis Whitmanii; Areca lutescens; Asparagus plumosus nanus; Asparagus Sprengeri; Ficus elastica; Ficus pandurata; window box; hamper of foliage plants.

H. J. Weber & Sons, 1st for specimen Genista; Asparagus Sprengeri; Bay trees; display of Evergreens; collection of Juniper; 2d for collection of Arborvitae; collection of fir and spruce; 3d prize for standard Bay trees.

W. A. Rose, 1st for Pansy bed; 100 white Carnations; 100 Narcissus Golden Spur; 100 Narcissus Poeticus; 50 Snapdragon; 100 Calendula; 2d for white and pink Sweet Peas; blue or purple Sweet Peas; light lavender Sweet Peas; 3d for 50 red Carnations; pink Sweet Peas; light lavender Sweet Peas.

Phil G. Goebel, Jr., 1st for 3 Callas; specimen Calla.

W. H. Kruse, 1st for collection of Palms; Window box; 2d for Fern group, 100 sq. ft.

Missouri Botanical Gardens, 1st for pyramidal Box Trees; collection of trained Box

Trees; Foliage plant not previously exhibited in the U. S.; Carpet bedding; Anthuriums; Cineraria stellata; Cineraria hybrida; Cyclamen; specimen Genista; Orchids; specimen Cattleya; Cyripediums; specimen Vanda; any other specimen Orchid; Stagbhorn Fern; collection of Dracaenas.

Pierre Schneider, 1st for 50 white Carnations; 50 dark pink; 2d prize for 50 light pink.

Gullett & Sons, 1st for 50 flesh pink Carnations; 50 red; 50 dark pink Roses; 50 red; 50 any other color Roses; 100 light pink Roses; 100 dark pink; 100 any other color; 2d for 100 red Carnations; 50 white Roses.

A. S. Cerny, 1st for white Roses; 50 light pink; 2d for 50 any other color Roses.

Mullanphy Florists, 1st for Bride's and Bridesmaid's bouquets; display of 400 Roses arranged for effect; personal adornment novelty; Hamper of bulbous flowers; 2d for Sweet Peas arranged for effect.

Joseph Witek, 1st prize for Dinner Table Decoration of Roses; vase of Roses; Sweet Peas arranged for effect; 2d for Corsage Bouquet; Dinner Table Arrangement of Carnations and Carnation arrangement, 200 blooms.

Woodlawn Gardens, 1st for 50 light pink Carnations; light lavender Sweet Peas; also Bronze medal of American Carnation Society.

Hugo Gross, 1st for white Sweet Peas; blue or purple; red or crimson; 1916 variety Sweet Peas; second prize for pink Sweet Peas; 100 Freesias; 100 white Carnations and 100 light pink Carnations.

A. F. Koop, 1st for white and pink Sweet Peas; pink Sweet Peas; Freesias.

Joseph Hauser, 1st for Admiral Avalene Violets; salmon Sweet Peas; 2d for lavender; 3rd for cream pink Sweet Peas.

Alton Floral Company, 1st for light pink Carnations; 2d for 50 white; 3d for 100 scarlet.

Baur & Steinkamp, 1st for 100 red Carnations.

Windler's Flowers, 1st for Carnation arrangement, 200 blooms; 100 Roses arranged for effect; 2d for personal adornment novelty.

Ayres Floral Co., 1st for Dinner Table Arrangement; Hamper of 100 Roses.

C. B. Nicholson, 1st for 6 Orchid plants; F. W. Weber, 1st for specimen Cibotium Schiedei; St. Louis Wholesale Growers' Company, 2d. Koenig Floral Company, 1st for Areca lutescens. St. Louis Wholesale Cut Flower Co., 1st for Standard Bay Trees; G. H. Weber, 2d; G. B. Windler, 2d for Dutch bulb display and group of Tulips.

W. J. Pilcher, 2d for 50 light pink Carnations, 50 dark pink Roses; Bergstermann, 2d for Bride's and Bridesmaid's bouquet; F. H. Weber, 2d for Rose dinner table decoration; Tom Carr, 2d for 100 Roses arranged for effect; O. C. May, 2d for red Sweet Peas; Chas. Meier, 2d for any other color Sweet Peas. Wm. Meyer, Jr., 2d for Kaiser Violets; J. W. Boerm, 2d for Hamper of bulbous flowers; W. J. Edwards, 2d for 50 dark pink Carnations and 50 red; Tom Kirkwood, 3d for 50 light pink Carnations; Widmer Floral Co., 3d for 100 white Carnations.

Honorable mention to J. F. Ammann for exhibit of Roses not for competition; also to F. Dorner & Sons Company for vases of their new Carnations, Rosalia and Laddie, also new Rose, Rose Marie and Seedling No. 1.

NOTES.

Grimm & Gorly purchased the entire exhibit of Randall of Chicago.

F. X. Gorly and Vincent Gorly were very prominent at the display of the Retail Association.

C. Young & Sons had a handsome booth with our soldier friend, Walter Young of Battery A in charge.

J. W. Boerm had a most beautiful table of yellow jonquills. Centerpiece and bouquets were very artistic.

Joe Witek did some artistic work, his sweet pea basket being the most beautiful arrangement of its kind ever seen here.

NATIONAL ROSE FESTIVAL

After eighteen years of active and useful work the American Rose Society has marked a glorious new milestone. Up until this year the society has been a trailer to bigger organizations helping them and itself as far as lay in its power—all of which was splendid work and laid the foundation for the first exclusive Rose Festival ever held in America. To the high courage and broad personnel of the officers of the society we must all doff our hats. Some among us old-timers in horticultural work and development thought the thing an iridescent dream impossible of accomplishment. But the present magnificent exhibition sets all doubts at rest. They have proved that the impossible can be done. President Pennock and his army of able helpers are entitled to most sincere congratulations.

The show was opened on the 20th inst. with appropriate ceremonies, the mayor of Philadelphia, in which city the event took place, making the opening speech. Then the crowds flocked in and glorious indeed was the spectacle that greeted them.

The First Regiment Armory Hall is one of the largest in the city and it was filled to overflowing with roses. Roses, roses, everywhere! Thousands of American Beauties in their acme of perfection, Russells, Killarneys, Ophelias, Sunbursts, Jonkheers, Wards, down to the millions of Ramblers and Polyanthas.

Six months ago the brave sponsors said the show would be "Queen Rosa in all her glory—the greatest Rose Show ever held in America!" That sounded a little Barnumy, but they have made good. And your scribe joins with joyous shout and cries "All Hail! Up higher yet, your bonnet!"

The layout of the show was excellent. As one entered, to right and left were the groups containing the competing hundreds of the big roses. In the main central the big feature was the rose garden laid out by Habermehl. This had a white marble Venus fountain in the center of a lake surrounded by grass walks, rose beds, statuary with trained specimen roses rising five, eight, ten feet high toned off at the corners with high shapely evergreens. A most imposing, artistic and delightful creation.

Beyond this at the rear center of the hall was the next big exciting feature for the visitor—the Dreer display. The big electric sign just said "Dreer," and it was enough. The crowds flocked there and they were rewarded. They stayed and stayed and struggled, making notes of the one hundred and seventy-one tried and true varieties on exhibition. A King conservatory was the central feature of the Dreer exhibit. This was filled with roses and outside on three sides were the rose beds. Dreer's did fine work at the great show last spring, but this is still bigger and finer. We Quakers are not

allowed to use cuss words but "by heck" and "by gracious" are permissible—so there! Translate them strong-er if you want to.

The Michell company had a splendid display on the northwest side, finely illuminated and arranged in Philip Freud's best style. Rose beds with grass and appropriate fixings were beautifully done, and we heard many visitors exclaiming that this was the best thing in the show.

And the side walls. Words fail me. Never have I seen the retail men do such noble work. Every exhibit was a gem in its way. It would be wrong to mention one as better than another because every one was best from some standpoint. It certainly was a revelation and sent all beholders into ecstasies of delight. I could talk all night about them but Uncle Sam's mail closes in about a minute, so you'll have to excuse me for being virtuous. If I had the chance I'd give you the earache!

G. C. WATSON.

The dinner to the judges at the Bellevue-Stratford on Tuesday was a very fine official function of which more anon. On Wednesday evening the smoker given in honor of the visitors' by the Florists' Club of Philadelphia was one grand time. Three hundred guests participated and enjoyed the vaudeville performance and all the other good things provided with open-handed liberality.

THE BOSTON SPRING SHOW

Last of the four big March exhibitions to open its doors, the Spring Show of the Massachusetts Horticultural Society is in full swing as we go to press, and from all indications it is destined to be a full financial success as it certainly is an artistic and floricultural triumph. The quality of the exhibits is very high and the arrangement and layout of the show as a whole is most excellent. The four halls in the Horticultural Building are filled to their full capacity and the open spaces are none too ample for the throngs of admiring visitors.

We shall not attempt to publish the list of awards this week or to describe in detail the various exhibits. We have a plethora of that sort of reading matter for this issue and an account next week will no doubt please our readers fully as well. We shall merely mention now some of the outstanding attractions. Thomas Roland has filled the stage with a charming collection of acacias which we think the prettiest acacia exhibit we have ever seen. A large section of the main hall is occupied by a formal "Flemish" garden by R. & J. Farquhar. It is chastely arranged and exceedingly pretty, nestling within a protecting fringe of fastigiate cedars. While not so pretentious and elaborate as some of Mr. Farquhar's previous efforts, yet it is in its taste and finish in no way inferior to them.

The big promiscuous plant groups for which A. M. Davenport and W. W. Edgar Co. have earned so high repute are better than ever before, and the masses of forced spring flowering trees and shrubs are simply lovely. The tulips are superb as are also the daffodils, which are shown in veritable forests and in infinite variety. Wm. Sim has out-Simmed himself with a great display of polyanthus primula hybrids and added to the interest by staging a fine bed of auriculas, the first exhibited here in any quantity since the days of David Allan, long ago. Obconica primroses are shown in large numbers by several exhibitors and we doubt if their equals have ever been shown anywhere. The improvement in this species has been almost incredible as to form, size and color of flower and vigor of the plant, and *Primula malacoides* is not far in the rear. Cyclamen are always good in Boston, and those seen this time bear out this reputation. We noticed a new deep pink tulip shown by A. W. Preston, gard. John L. Smith, under the name of "President Wilson." Hydrangeas, lilies and astilbes are admirably displayed by W. W. Edgar Co.

The orchid groups are all placed in the small hall. Julius Roehrs of Rutherford, N. J., has a stunning arrangement of orchid plants, cleverly illuminated from below and the effect is indiscribably impressive. A gold medal

for rarity and hybrids, besides a silver medal and \$200 cash prize is awarded. F. J. Dolansky has touched the pinnacle of his triumphs with a show of orchids and Farleyense ferns of most remarkable character and the gold medal and \$300 cash card which the judges have placed upon it is a richly deserved honor. Thomas Roland has a fine table of ericas in many species.

The carnation section is always a prominent and inspiring feature of the Boston Spring Show. With such masters competing as A. A. Pembroke, S. J. Goddard, Strout's and others well-known in carnationdom this display could not be otherwise than superb, and superb it certainly is.

Several of the retail florists have come in with tasteful examples of their handiwork. Penn, Comley, Boston Cut Flower Co., and others are generously represented. Violets of remarkable size are shown by Edward Brigham and Osgood Bros., have a good showing of pansies. The private estates are very largely represented in the various plant and flower groups and we shall give them due attention in next issue. It is very pleasing to see the snap and ginger which pervades the whole enterprise this time and the ready response of the public to the invigorating influence that has been let loose in this "Corner of Paradise."

AMERICAN ROSE SOCIETY

New Officers Elected

PRESIDENT—Benjamin Hammond, Beacon, N. Y.
VICE-PRESIDENT—William L. Rock, Kansas City, Mo.
SECRETARY—Prof. E. A. White, Ithaca, N. Y.
TREASURER—Harry O. May, Summit, N. J.

At the annual meeting of the American Rose Society held in Philadelphia, on Wednesday, March 21, officers were elected as follows: President, Benjamin Hammond, Beacon, N. Y.; vice-president, W. L. Rock, Kansas City, Mo.; secretary, Prof. E. A. White, Ithaca, N. Y.; treasurer, Harry O. May, Summit, N. J.

The annual address of President S. S. Pennock and reports of Secretary Benj. Hammond and Treasurer H. O. May follow. Further details will be given next week.

PRESIDENT'S ADDRESS.

A year ago we were holding our annual show and meeting as a part of the National Flower Show. The American Rose Society contributed very largely in making this show such a wonderful success, as it was through the combined efforts of our officers and members that there was staged one of the greatest exhibitions of roses ever held in this country. Unfortunately, however, the Rose Society was not directly benefited financially by these efforts.

In view of what the Rose Society had accomplished, it was decided—after very careful consideration—to hold in Philadelphia, March, 1917, a show of our own, composed entirely of roses, not only to further our interests, but also as an educational feature, and an uplift to the society, in placing it in the prominent position it so richly deserves among the important societies of our country.

Everyone visiting our present show at the First Regiment Armory cannot help but realize how well and how faithfully those in charge have worked to bring about the splendid results in making this exhibit the wonderful success it is—a show we can all well be proud of—a band of men who worked and pulled together with but one object in view—SUCCESS; and I want to take this opportunity as your President, for the society to thank not only the officers and chairmen, but every member who so faithfully worked to make this show a success. It has never been my pleasure to be associated with any group of men who threw their hearts and souls into an undertaking with more vim and energy than you have. May this show be the inspiration and forerunner of many successful shows in the future.

This is primarily a show that appeals more to the commercial man

than to the amateur, yet there are many points that interest and deal directly with the amateur—the rose gardens, the cut roses, grown commercially, I know, but many of them splendid garden roses, as well as many other, to them, interesting features. The question arises in my mind why it would not be possible to hold in June a national outdoor Rose Festival annually, conducting it on a large scale, bringing exhibits from all leading amateur rosarians within a radius of overnight trips or less, thus gather-



BENJAMIN HAMMOND
President Elect American Rose Society.

ing together amateurs and their roses from all over the country—an event that would be looked forward to and sought for by groups of rose lovers, in every city, whether small or large. We have with us amateurs, members that are enthusiastic, willing and well able to undertake the carrying on of an annual festival of this character. I should be very glad indeed to have a discussion on this subject at this meeting, and some definite steps taken toward establishing such an annual affair. I am sure we have many amateurs, some right here in Philadelphia, who would be willing to throw their efforts into a movement of this nature. This, with our Spring Show, should increase our membership as nothing else will or could; so I hope everyone—particularly you commercial men—will give this your very earnest support, making for the advancement of the rose, both from a garden and a commercial standpoint. "A Rose for Every Home; A Bush for Every Garden."

The membership of the Society has materially increased in both the active and associate classes. In addition to a healthy growth in the active membership, there has resulted an increase in associate membership to at least twenty times the number recorded one year ago, and this increase is continuing, I am glad to say. Last fall the Society made a proposition to several rose catalog men, some taking advantage of it, some turning it down. The firms who went into this partnership arrangement—I am sure—are well paid for the effort. I know the Society feels the proposition has been a splendid help, and is more than grateful to these firms for their hearty co-operation. To those who are not familiar with this agreement a word of explanation is in order. The dues were payable to the firm soliciting the membership, they retaining half the amount. This as a business proposition—on the surface—looks like poor business, but from the viewpoint of future membership I believe it one of the best moves ever made by the Society—a member once, a member always.

While on this membership business, I should like to recommend a readjusting of the membership dues, not only the active but the associate and affiliated as well. Instead of having two classes as we now have—active and associate memberships—I would suggest we merge them and have only the active membership. This would give the associate member—who at present is not eligible to vote or take part in any proceedings—all the rights of membership. Also, instead of active members paying \$3 annually, and associates \$1, that the dues for all be \$2.

Our affiliated members at present are paying 25c. This I think—with all we are doing at present and all we are planning for the future for these members—should be \$1, they receiving the "Annual" and any other literature which may be issued; also admissions to any shows; these "Annuals" to be shipped in bulk to the affiliated society and not distributed individually by the Rose Society.

I hope these recommendations on membership dues will meet with your approval, and that same will be brought up for discussion at this meeting.

The favorable reception accorded to the 1916 Rose Annual is the best comment on the success of this attempt. The editor of the "Annual," Mr. J. Horace McFarland, found ready and cheerful co-operation among the members of the Society who could afford proper help. It is believed that the articles presented in the 1916 "Annual" on possibilities in rose-breeding, on the rose species available from China and elsewhere, on America's efforts in rose-growing and rose-breeding, on the diseases and insects which affect roses, on rose popularity in various parts of the United States and Canada, on rose organizations, and on roses grown for cut-flowers, were of such value that the volume will long remain a standard reference book, comparing favorably with the best issues of the National Rose Society of England.

As an illustration of how this "Annual" was received not only in this

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Rutherford, N. J.

country, but in Europe as well, I want to read you from a letter of May 26th, 1916, from Joseph J. Lane, of the "Garden Magazine":

I had the pleasure of being one of those present at the meeting of the American Rose Society during the Philadelphia Flower Show in 1916, because I joined the Society two or three days before. I tell you frankly that the reason I joined the Rose Society was to get a copy of the "Rose Annual," and to affiliate myself with an organization which was so enthusiastically going about its work. The majority of the horticultural organizations as a rule solicit you for your dues and never think of making any plans for you to get something back for your money. I am glad to say that in receiving a copy of the "Rose Annual" I have received sufficient to pay me for my entire dues. Next year I want you to solicit us good and hard for advertising in this book. The "Garden Magazine" and "Country Life in America," also some of our garden books, should be in there, and I will do everything in my power to see that they are.

The heading of a column and a half article in the "Gardeners Chronicle" of July 8th, 1916—an English publication, starts off in this fashion:

"THE AMERICAN ROSE ANNUAL."—The American Rose Society and Mr. McFarland, its Editor, are to be congratulated on the issue of the first 'Annual' under the auspices of the Society. This forms a volume of some 150 pages, the last ten of which are devoted to accounts of Rose Shows."

Then it goes on, giving a thorough resume of the book in its many phases. These are but two instances of many, showing how wonderfully the "Annual" of 1916 was received—indeed a volume to be proud of!

In the late spring of 1916 a fund for research work in rose diseases was started. A liberal response to the call for subscriptions from interested rose-growers all over the country made it possible for the officers to arrange through Dr. H. H. Whetzel—the pathologist of Cornell University—for the employment of Dr. L. M. Massey to undertake the disease study desired. The University itself bears an important part of the cost of the work.

Dr. Massey began work in the early fall, and his accomplishments up-to-date have been most gratifying, even though it was not expected that there would be any particular result for at least a year. For example: his investigation of the new trouble which besets cut-flower rose growers—a form of crown root-gall—is likely to result in the early checking of a disease which certainly, under previously existing conditions, might easily have put many growers entirely out of business. It is most important that every grower, particularly the commercial man, should take careful note of the disease. Dr. Massey has also taken up carefully the study of the difficult black-spot, and in the 1917 "Annual" will be found his article bearing on this most important subject. The research fund was solicited largely through personal effort, and it is my sincere hope that the subscriptions will be renewed and extended, so that the work may be carried on for another year, or as much longer as is necessary to keep the members of the Society fully informed as to rose diseases, and as to the best means for combating them.

The Nursery Trade.

It seems that here is an opportunity where the nurserymen are not taking



The above illustration is a facsimile of a painting by Victor Gillman of New York, presented by him to Mr. Pennock in appreciation of his work as President of the American Rose Society during his two terms of office.

advantage of their opportunities, in coming in and being represented more strongly in the Society. (President Pennock here quoted from a letter of February 17th, 1917, received from Mr. John Watson, President of the American Association of Nurserymen.)

From this you will see how one of our prominent fellow nurserymen feels not only about the Society, but the introducing of new roses of American origin as well. It would not only give me great pleasure, but immense satisfaction to have the nurserymen and their interests more closely allied with the Rose Society, and I hope we may have their fuller support in the future.

Rose Test Gardens.

Our work in the past of the rose-testing gardens is too well known for me to go over it at this time. These test-gardens—I am glad to say—are bringing good results, but not as good as we would like to have in the way of records of how the gardens are being kept up, as these are of great importance. These test-gardens are going to be one of the very valuable assets of the Society, not only in the actual garden-tests, but in the records of the roses. May we look forward to only a few years hence when every city of any size will take hold and foster a rose-garden such as Portland, Oregon, is undertaking at this time, which is called "The Portland Association National Rose Test Garden"—a wonderful movement not only for Portland, but for the Rose Society, and the rose business in general—which is being backed by such bodies as the chamber of commerce, city councils, and ninety-seven other or-

ganizations. Think of it—ninety-nine distinct organizations! This spells progress in the broadest sense of the word, and to my mind should be an incentive for every other city in this country.

I want to read you a quotation from HORTICULTURE of July 15 1916:

"We heard from a number of places where municipal rose gardens are being established this year, or are being planned. It is only a question of time—and not very long—until a rose garden will be regarded as an indispensable feature of every public park, and private estates generally will follow suit. Until the advent of the hardy hybrid teas and ever-blooming Polyanthas, there was little inducement for the making of rose gardens in the northern and eastern United States. Now, there is abundant recompense for all the labor and attention incident to the proper planting and care of the Queen of Flowers, and with prospects as they now appear, the garden rose industry is only in its infancy in this country. In the effort to improve and add to the number of forcing roses, American rosarians have been in the past concentrating all their thoughts on a single ideal, and—no doubt—hundreds of their seedlings have been thrown away because they failed to measure up to the forcing rose standard, which, had they been given an opportunity to qualify, would have proven invaluable as garden varieties. With the rapidly developing demand for the latter comes a new incentive to rose hybridizing in this country, and we shall be surprised and disappointed if American grown varieties do not in the very near future outstrip and out-class for garden use the foreign productions upon which we have been hitherto so largely dependent."

Here is a thought for every American hybridizer to think over thoroughly, and possibly make a profit out of a seeming loss.

Another recommendation which I wish to make is that the editor and advertising manager of the "Annual" be made ex-officio members of the Executive Committee. This I think is an

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ROBERT CRAIG CO. ROSES, PALMS,

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Nurserymen, Florists
and Planters

RUTHERFORD, NEW JERSEY

SURPLUS STOCK OF EVERGREENS, SHRUBS AND PERENNIALS OF HIGH QUALITY

Section of land must be cleared, and while quantities last we will quote **ROCK BOTTOM PRICES**. Name items and quantities that interest you.

- | | |
|---|--|
| 500 White Spruce, 4-9 ft. | 1000 Spiraea opulifolia, 3-4 ft. |
| 1000 Koster's Blue Spruce, 2-4 ft. | 500 Common Hazel, 3-4 ft. |
| 1000 Colorado Blue Spruce, 3-5 ft. | 500 Clethra alnifolia, 2-3 ft. |
| 1500 Norway Spruce, 3-6 ft. | 2000 Lycium barbarum, 3 yrs. |
| 1000 Fraser's Fir, 3-5 ft. | 500 Prunus Pumila, 2-3 ft. |
| 200 Balsam Fir, 6-8 ft. | 500 Sumach, Glabra, 4 ft. |
| 500 Red Cedar, 3-4 ft. | 500 Sumach typhina, 4 ft. |
| 500 Hemlocks, 3 ft. | 1000 Spiraea salicifolia, 3-4 ft. |
| 500 Jap. Yew, (Upright), 3 yrs. | 500 Spiraea tomentosa, 2-3 ft. |
| 500 Variegated Euonymus radicans, 3 yrs. | 500 Viburnum lantana, 3-4 ft. |
| 500 Acer glabrum, 4-5 ft. | 500 Viburnum Bush Cranberry, 3-4 ft. |
| 6000 Carolina Poplars, 5-9 ft. | 500 Viburnum Common Snowball, 3-4 ft. |
| 5000 Lombardy Poplars, 5-7 ft. | 500 Symphoricarpos vulgaris, 2-3 ft. |
| 500 European Larch, 7-8 ft. | 2000 Bitter-Sweet (Celastrus), 3 yrs. |
| 300 Balsam Poplars, 7-8 ft. | 2000 Trumpet Vine (Tecoma), 3 yrs. |
| 300 Golden Hop Trees, 3-4 ft. | 2000 Sweet Briers, 3 ft. |
| 1000 White Willows, 4 ft. | 500 Rose Hiawatha, 2 yrs. |
| 8000 Laurel, or Glass Willows, 3-5 ft. | 500 Achillea, The Pearl, 2 yrs. |
| 500 Regal Willows (Regalis), 3-4 ft. | 2000 Shasta Daisies, 2 yrs. |
| 500 Jap. Crab (P. Baccata), 4-5 ft. | 1000 White Iris Siberica, 2 yrs. |
| 2000 Golden-Barked Willows, 4 ft. | 1000 Blue Iris Siberica, 2 yrs. |
| 400 Bird Cherry (Padus), 3-4 ft. | 500 Monarda (Balm), 2 yrs. |
| 500 Hornbeam, 3 ft. | 500 Astilbe Japonica, clumps. |
| 2000 Red-Barked Cornel, or Dogwood, 3-4 ft. | 10000 Vinca minor, 2 yrs. |
| 2000 Jap. Quince, 2 ft. | 500 Ajuga reptans, 2 yrs. |
| 2000 Scotch Broom, 2-3 ft. | 500 Boltonia asteroides, 2 yrs. |
| 500 Broom (tinetoria), 2 ft. | 500 Hemerocallis, mixed, 2 yrs. |
| 1500 Bush Honeysuckles, 3-4 ft. | 5000 Pachysandra, 2 yrs. |
| 1000 Dwarf Syringa, 2 ft. | 500 Ranunculus (Buttercup), 2 yrs. |
| 1000 Buckthorn, Catharticus, 3-4 ft. | 500 Sedum spect. (Variegated leaf), 2 yrs. |
| 500 Buckthorn, frangula, 3 ft. | 3000 Hydrangea P. G. 18 to 24 inches, bushy and very strong. |
| 2000 Button Bush, 18-24 in. | |

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Fruit and Ornamental Trees, Shrubs, Small Fruits, Clematis, Evergreens and Roses.

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FILLED with RAMBLER ROSES, HYDRANGEAS, DAISIES, HEATHS, BOUGAINVILLEAS, BORONIAS, FERNS, CROTONS, ACACIAS, CAMELLIAS, etc., just right for your EASTER trade.

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important matter and well worth your serious consideration, as the "Annual" will be of more vital importance to the Society each year.

In conclusion I want to add a word of praise for Mr. Hammond, who has labored long and faithfully as secretary of the Rose Society—his has been a labor of love and not remuneration—and I think we cannot feel too kindly towards him, realizing as we do that to him—more than to any other one man—is due the standing of the American Rose Society today.

SECRETARY'S REPORT.

The year has seen a large advance in the popular interest in the American Rose Society. "There is no success like success." The first rose show held under the auspices of the American Rose Society was in New York City in 1899 and was backed by a goodly number of patronesses. The ladies took hold to make the exhibition a success; from that time to this there has not been a season when we have not had a fine rose show, and at this eighteenth successive annual meeting we can report a great increase of associate members—that is, persons not engaged as florists or nurserymen. Our total membership is 1,092, as follows: 55 life members, 138 active members and 899 associate members, these coming from the states of Washington, Oregon, California, New Mexico, Texas, Louisiana, Alabama, Georgia, Florida, South Carolina, North Carolina, Virginia, Washington, D. C., Maryland, Delaware, Pennsylvania, New Jersey, New York, Connecticut, Rhode Island, New Hampshire, Maine, Vermont, Massachusetts, Ohio, Indiana, Michigan, Illinois, Wisconsin, Minnesota, Iowa, Missouri, Kansas, Arkansas, Tennessee, Kentucky, West Virginia, Nebraska, Colorado, Oklahoma, Utah, North Dakota, South Dakota, Montana, Idaho, and in Canada, Quebec, Nova Scotia, Ontario, Manitoba and British Columbia; also London, England, Denmark, Cuba, San Domingo and Mexico. This large increase within the year past is to be attributed mainly to the service rendered by J. Horace McFarland, who gave the Society the benefit of his publishing company in the printing and make up of the Annual for 1916, a book of decided merit. The funds at the disposal of the American Rose Society had never permitted us to embark in the issuing

of such an excellent book. Mr. McFarland, in 1915, offered to do it and if there was a loss on the actual cost, he would stand one-half the deficit with the Society. There was no deficit on the outcome so far.

The present year solicitation slips were sent out by various seed houses and nurserymen and florists in their catalogues, and these returns are mainly responsible for the marked increase of amateur members.

The record gives us one addition to the life membership list—Mrs. Elizabeth C. T. Miller. The life membership fund now is \$3,200.00, and this is a most important fund to have grow. A society for permanence needs a substantial basis. Last year we expressed the hope to see our membership grow and this hope is materializing.

During the past year two of our life members have died—Mr. Wm. C. Barry of Rochester, N. Y., who was the second president of the Society, and Mr. S. J. Reuter of Westerly, R. I.; both men of character and standing.

The executive committee has had fourteen separate meetings during the past year, the details of which have been published in the trade and other papers for general information.

An effort was made to have special investigations of the diseases of roses made, and an arrangement was made with Dr. Lewis M. Massey of the College of Agriculture, Cornell University, Ithaca, N. Y., to take up the work.

A new rose test garden has been established for the Pacific Northwest at Portland, Ore. Application was received for Bellingham, State of Washington, and from the Texas Agricultural College, but we were not able to provide for more than one this year.

Several new roses were offered for registration and are recorded in the Annual just published. In the registration of roses there has not been any formal rule of description hitherto. To bring about a full and clear description for a registration, the executive committee appointed a committee to present such form for adoption in future use. The demand for medals of this society for prizes at summer shows has been granted to affiliated societies.

The interest in local June rose shows is becoming more general.

The Society visited officially the Washington test garden, and the Cornell test garden at Ithaca, N. Y.

At Newport, R. I., a special effort is being made to have an excellent outdoor display on July 4th next. The American Rose Society tries to encourage these local shows.

At Barrytown-on-the-Hudson, the usual rose show was held. This local show has been for many years past an event well attended by local people and a society medal was presented. The present exhibition is the first time in five years when the American Rose Society has held a show entirely alone. The people of Philadelphia have shown much interest and the guarantors of an insurance for expenses and prizes number seventy-one.

The growth and development of the Society has reached a point where the future seems assured, and the detail work is steadily increasing to such an extent that your secretary, who has filled the position to the best of his ability since 1905, is obliged to decline re-election to the office, and I may truthfully say that the work done by all officers and others concerned has brought the American Rose Society to its present position, and may its motto, "A Rose for Every Home and a Bush for Every Garden," become a fixed fact in this country of ours.

TREASURER MAY'S REPORT.

For year ending March 16th, 1917.

Receipts.

Balance on hand March 22, 1916.....	\$1,047.92
Dues	1,198.01
Premiums for exhibitions.....	1,015.00
Life Membership	50.00
Deposit for Armory returned.....	100.00
Guarantee fund	2,825.00
Rose Research fund.....	670.00
Interest on mortgage certificates..	150.00
Interest on permanent fund.....	16.22
Interest on current balance.....	24.81

\$7,097.96

Disbursements.

Printing, stationery, etc.....	\$ 544.86
Medals, engraving, etc.....	92.60
Premiums for exhibitions.....	1,160.00
L. M. Massey Rose Research work	660.37
Sundry expenses of Secretary, postage, etc.	210.43
Exhibition expenses	2,525.00
Deposit in permanent fund.....	50.00

Balance on hand..... \$5,213.26
1,884.70

\$7,097.96

Investment.

Westchester & Bronx Title and Mortgage Guaranty Co.	
Three mortgage certificates....	\$3,000.00
Summit Trust Company	
Permanent Fund	250.00
Hubbard Medal Fund	250.00

SPRING BULBS

TUBEROUS-ROOTED BEGONIAS

SINGLE-FLOWERING

Crimson, Scarlet, Pure White, Rose, Light Pink, Yellow, Salmon, Orange, Copper or Mixed, all colors.

	Doz.	100	1000
Bulbs, 1 1/4 in. diam. and up	\$0.35	\$2.25	\$20.00
Bulbs, 1 1/2 in. diam. and up	.40	2.75	25.00

DOUBLE-FLOWERING

Crimson, Scarlet, Rose, Pure White, Copper-Bronze, Salmon, Yellow, Orange, Light Pink, or Mixed, all colors.

	Doz.	100	1000
Bulbs, 1 1/4 in. diam. and up	\$0.50	\$3.50	\$30.00
Bulbs, 1 1/2 in. diam. and up	.65	4.00	35.00

CALADIUM ESCULENTUM

(Elephant's Ear)

Full cases at 1000 Rate

	Doz.	100	1000
5/7 200 in a case	\$0.30	\$2.25	\$20.00
7/9 100 in a case	.50	3.50	30.00
9/11 75 in a case	.75	5.50	50.00
11/12 50 in a case	1.10	8.00	75.00
13/up 25 in a case	1.60	12.00	

FANCY-LEAVED CALADIUMS

The English collection containing twelve varieties of the very finest transparent leaf sorts. Extra fine bulbs. \$2.25 per doz., \$15.00 per 100.

Brazilian Collection of 12 varieties. \$1.50 per doz., \$12.00 per 100.

Mixed Brazilian Varieties. \$1.25 per doz., \$10.00 per 100.

CINNAMON VINE

Bulbs, 6 to 10 in., 30c. per doz., \$2.00 per 100, \$18.00 per 1000.

MADEIRA VINES

Large bulbs, \$2.00 per 100, \$18.00 per 1000

TUBEROSES

Double Pearl. Bulbs, 4 to 6 in. in circumference. \$1.00 \$7.50



GLADIOLUS

	Doz.	100	1000
America. 1st size. Shell pink	\$0.30	\$1.75	15.00
Augusta. White lavender throat	.30	1.75	15.00
Baron Hulot. Indigo blue	.35	2.25	20.00
Brenchleyensis. Vermilion scarlet	.25	1.50	12.50
Halley. Salmon pink to bright red	.25	1.50	12.50
Hyde Park. White, feathered rose	.50	3.50	30.00
Mrs. Francis King. Vermillion scarlet	.30	1.75	15.00
Panama. An improved America	.40	3.00	25.00
Pink Perfection. Rose pink	.60	4.00	35.00
Principis. Rich crimson, extra large	.40	3.00	25.00

CANNAS, Dormant Roots

Packed 250 in a Case
Full cases at 1000 rate

Red-Flowering Cannas, Green Foliage

	100	1000
BEAUTE POITEVINE. 3 1/2 ft.	2.00	17.50
BLACK PRINCE. 4 ft.	2.75	25.00
CHARLES HENDERSON. 4 ft.	2.00	17.50
CHEROKEE. 4 ft.	1.50	14.00
CRIMSON BEDDER. 3 ft.	2.75	25.00
DUKE OF MARLBORO. 4 1/2 ft.	1.75	15.00
FURST BISMARK. 4 ft.	1.65	15.00
CHANCELOT BULOW. 3 ft.	1.65	15.00
J. D. EISELE. 5 ft.	1.65	15.00
LOUISIANA. 6 ft.	1.65	15.00
METEOR. 5 ft.	12.00	100.00
MEPHISTO. 3 1/2 ft.	1.65	15.00
MUSAFOLIA. 7 ft.	1.65	15.00
PRESIDENT CLEVELAND. 3 ft.	2.00	17.50
PRES. MEYER. 4 ft.	2.00	17.50
PILLAR OF FIRE. 6 ft.	2.00	17.50
TARRYTOWN. 3 1/2 ft.	2.00	17.50

Bronze-Leaved Red-Flowering Cannas

DAVID HARUM. 3 1/2 ft.	2.75	25.00
------------------------	------	-------

Yellow and Yellow Spotted

JOHANNA KANZLEITER. 4 ft.	1.65	15.00
GUSTAV GUMPER. 4 ft.	3.75	35.00
RICHARD WALLACE. 4 1/2 ft.	1.65	15.00
GLADIATOR. 5 ft.	1.65	15.00
AUSTRIA. 6 ft.	1.65	15.00

Orange Shades

MRS. KATE GRAY. 6 ft.	1.65	15.00
INDIANA. 6 ft.	1.65	15.00

Yellow-Edged and Gold-Edged Cannas

AMERICA. 5 ft.	1.35	12.00
ALLEMANNA. 4 to 5 ft.	1.35	12.00
DUKE OF YORK. 5 ft.	2.75	25.00
GLADIO-FLORA. 3 1/2 ft.	1.65	15.00
ITALIA. 4 1/2 ft.	1.50	14.00
JEAN TISSOT. 5 ft.	1.65	15.00
MAD. CROZY. 5 ft.	2.25	20.00
SOUV. de A. CROZY. 4 ft.	2.25	20.00

Pink-Flowering Cannas

LOUISE. 5 ft.	2.00	17.50
VENUS. 3 1/2 ft.	2.00	17.50
SHEANDOAH. 6 ft.	1.65	15.00

Arthur C. Boddington Co., Inc., 128 Chambers Street, New York City

A VIOLET PROBLEM.

Mr. J. J. M. Farrell:

Dear Sir—Would you kindly inform me what makes violets show their necks instead of their flowers? Is this due to their culture? I have a small house of Princess of Wales violets which were planted last September in benches with a small mulch of cow manure in the bottom of the benches and filled with good loam. Since then they have only had a dressing of wood ashes and a watering with liquid cow manure. The plants are healthy and full of buds, with stems eight to ten inches in length and the stems are fairly strong. We run the house around 42 at night and 50 to 52 on bright days and around 46 on dull days. Any information or remedy that will overcome this trouble will be greatly appreciated. R. J. New York.

It seems to me there is something very wrong in their culture. It might be heavy fumigations, a too rich soil, or a very dark house. There are so many causes that can lead to violets not opening their flowers right that it would be hard to say without more knowledge of all the conditions under

which they are growing. Any condition that tends to enfeeble their constitution will produce trouble. Your temperatures are all right. Your compost may be at fault. You probably will not be able to do very much with them this year as their season is drawing to a close now. Following the notes in HORTICULTURE from time to time will give you a good start for another year.

JOHN J. M. FARRELL.

CLUB AND SOCIETY NOTES.

At the May meeting of the Gardeners' & Florists' Club of Boston, E. I. Farrington will talk on "What's New in the Garden," illustrated with slides in colors.

At the regular monthly meeting of the Nassau County Horticultural Society in Glen Cove, N. Y., on March 14th, James Holloway gave a very interesting report of his recent visit to

the Davey Tree Convention. The exhibition tables were well filled with very strong competition in all the carnation classes. Awards were as follows: 1st to Frank Watson for pink, James McCarthy for white and Peter McDonald for mixed. The special prize offered by P. W. Popp for the most meritorious exhibit was won by John F. Johnson with a very fine display of Polyanthus, well flowered, in 6 in. pots. Certificate of culture to John W. Everitt for lettuce Golden Ball and special mention to Peter McDonald for antirrhinum Silver Pink. It was decided, if the trustees could procure the exhibition hall, to hold the annual Dahlia Show on Tuesday, Oct. 9th, and the Chrysanthemum Show on Nov. 1st and 2nd. Competition for the next meeting, April 11, will be for one pan of bulbs, one plant of Easter lily and one Hydrangea in pot not to exceed 8 inches.

HARRY GOODRAND, Cor. Sec.

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Kirby B. White, Detroit, Mich.; First Vice-President, F. W. Boigliano, Washington, D. C.; Second Vice-President, L. L. Olds, Madison, Wis.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.—Convention at Detroit, June 19, 1917.

American Sugar-Beet Seed Industry.

Sugar-beet seed of good quality and in large quantities must be produced in the United States if the highest development of the beet sugar industry in this country is to be reached, say plant specialists of the U. S. Department of Agriculture in an article in the forthcoming Yearbook of the Department. The domestic beet sugar industry, in which more than \$100,000,000 is now invested, was almost wholly dependent until the outbreak of the European war on a seed supply from Europe. Since the normal importation of seed was interfered with by hostilities, efforts have been made to grow the necessary seed in this country, but though the production from approximately 4,000 acres of beets was harvested in 1916, this was hardly more than sufficient to plant the acreage of beets required by the natural expansion of the industry. Some seed was imported with great difficulty for the 1916 planting, but several sugar factories remained idle because of the insufficient supply of seed.

No grave difficulties, it is believed, stand in the way of the domestic production of high quality seed sufficient to meet the needs of this country. In practically all instances the American-grown seed has been found superior to the imported seed. This is true of seed grown under various conditions in a number of different portions of the country. The problem, in so far as the mere possible replacement of European seed by American seed is concerned, would seem to be only a matter of the planting of greater acreages in this country. This does not, however, take into account the economic side of beet seed production nor the possibility of improving the quality of the seed. The chief reason for the dependence of America on the importation of seed in the past was the low price at which the supply could be obtained from abroad.

The studies of plant specialists of the Department of Agriculture lead them to believe that the quality of beet seed and of the crops which such seed produce can be improved greatly by selection and plant breeding, and that as a result the cost of production of seed in this country can be reduced. At present there are in this country no distinct types of sugar beets. In many sugar beet fields throughout the country, whatever the name of the so-called variety grown, from 6 to 20 or more distinct types of beets can be found. In fact, scarcely two beets growing side by side in the same field have closely related external characters of leaf or root, and the quality of roots varies in both sugar and purity. Equally wide variations may be found in the beet seed fields, especially with reference to habit of growth of seed

stalk and yield of seed. Because of this condition of affairs plant specialists take the view that the first step in the development of a permanent beet seed industry in this country lies in the development of true types with reference to both seed beets and seed production.

The production of beet seed requires two seasons of growth. The mature beets resulting after one season from the seed must be harvested, the leaves removed and the roots carefully siloed with a dirt covering to preserve them in a dormant condition through the winter. These roots are planted at the earliest possible time the following spring and rapidly produce seed stalks from 3 to 6 feet in height. These are harvested with a sickle at the proper time and the seed carefully threshed, cleaned and cured.

New Seed Stores

Ozark, Ark.—Conatser & Hill.

Vidalia, Ga.—G. F. Dixon.

Wrightsville, Ga.—Rowland Grain & Seed Co.

Stockton, Cal.—James Knox has taken over the retail seed business of the Hobbs-Parsons Co.

MASSACHUSETTS AGRICULTURAL COLLEGE NOTES.

Clark Thayer, instructor at Cornell, has arrived in Amherst to fill temporarily the position left vacant by Professor Nehrling.

The Florists' and Gardeners' Club Annual is being distributed. Members of the trade may obtain copies by addressing Harry Saidel, Amherst, Mass.

Professor A. H. Nehrling left Amherst last Saturday to take up his new work as manager of the McDonald Floral Company, Crawfordsville, Indiana.

The students' problems on carnations have been handed in and are generally good, showing a splendid grasp of the subject both as to culture and the details of construction, heating, marketing, and the entire business end. The problems are also so good that it will be difficult to determine which are the best.

NEW CORPORATIONS.

Clovis, Cal.—Wilson Vineyard Co., nurserymen, capital stock, \$25,000. Incorporators, J. A., G. C. and B. B. Wilson.

Mt. Vernon, N. Y.—J. B. Arndt Co., florists, capital stock, \$5,000. Incorporators, J. B. Arndt, Geo. M. and Delia Gibbs.

Syracuse, N. Y.—F. H. Eberling, Inc., dealers in seeds, plants and bulbs, capital stock, \$125,000. Incorporators, F. A. and F. H. Eberling and A. A. Day.

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CALADIUM ESCULENTUM BULBS.

Please tell us how many you can use and we shall make prices accordingly.

Selected strains of Ageratum, Alyssum, Aster, Begonia Erfordi, Calendula Meteor, Prince of Orange, Candytuft, Celosia, Centaurea, Cobaea scandens, Cosmos, Gypsophila, Lobelia, Petunia, and Verbena. Special prices on the above on application.

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Tuberous Rooted Begonias

STRONG STOCK.

" Mixed "	100	1000
Double, Separate colors	2.50	22.50
" Mixed "	4.00	35.00
" Mixed "	3.50	30.00

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1004 Lincoln Bldg. Philadelphia, Pa.

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WINTER-ORCHID-FLOWERING SWEET
PEA SEED

Has been mailed. If you have not received a copy, send me postal. Part of new crop will be ready early in July.

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Sweet Pea Ranch Lompoc, Cal.

ROBERT DYSART

CERTIFIED PUBLIC ACCOUNTANT

Simple methods of correct accounting
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BOOKS BALANCED AND ADJUSTED.

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FARQUHAR'S GOLD MEDAL CYCLAMEN



Awarded the Gold Medal of the Massachusetts Horticultural Society.

Strong plants in 2 1/4 inch pots, for delivery in April.

\$10.00 per 100

R. & J. FARQUHAR & CO., Boston, Mass.

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FOR SALE BY

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LILIUM GIGANTEUM

NEW CROP NOW READY.

	Per 100	Per 1000
7 to 9 in. (300 bulbs to case)...	\$5.50	\$50.00
8 to 9 in. (250 bulbs to case)...	7.00	65.00
8 to 10 in. (225 bulbs to case)...	9.00	80.00
9 to 10 in. (200 bulbs to case)...	10.00	95.00

A. HENDERSON & CO.

211 N. State St., Chicago.

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BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
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LILIUM FORMOSUM

8/11, 225 to a case.....	\$80.00 per 1000
9/10, 200 to a case.....	85.00 per 1000
11/13, 100 to a case.....	15.00 per case
LILIUM FORMOSUM—Black Stem	
8/10, 200 to a case.....	\$80.00 per 1000
9/10, 180 to a case.....	90.00 per 1000
11/13, 100 to a case.....	16.00 per case

Write for Complete Stock Circular.
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New crop flower and vegetable seeds.
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Catalogue on application.

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166 W. 23rd St., NEW YORK

GARDEN SEED

BEEF, CARROT, PARSNIP, RADISH and
GARDEN PEA SEED in variety; also other
items of the short crop of this past season,
as well as a full line of Garden Seeds, will
be quoted you upon application to

S. D. WOODRUFF & SONS

82 Dey St., NEW YORK and ORANGE, CONN

ALEX. McCONNELL

611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

*Cost of Cabling Foreign Deliveries
Must be prepaid*

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.

Penn.
The Florist

"The Telegraph Florist"

Member of Florists' Telegraph Delivery

124 TREMONT ST.
BOSTON

FOR

KANSAS CITY

Transfer Your Orders to

SAMUEL MURRAY

1017 Grand Avenue

Members Florists' Telegraph Delivery

Orders for NEW YORK.
Write or Phone to

MAX SCHLING

22 West 59th St.
Adjoining Plaza Hotel

Best Florists in the States as
References.

EUROPEAN ORDERS EXECUTED

Members of the Florists'
Telegraph Delivery.

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City

(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address Dardsflor.

DAVID CLARKE'S SONS

Deliver orders from any part of the country to
New York City

Or OUT-GOING STEAMERS

Write or Telegraph

2139-2141 Broadway, - New York

Telephone 1552-1553 Columbus

Of Interest to Retail Florists

Cincinnati.—The Clifton Floral Co., a new concern, is opening a retail flower store on Ludlow avenue in Clifton.

Washington, D. C.—Announcement has been made that the Louise Flower Shop, at Connecticut avenue and L. streets, will not now be opened until April 2. This promises to be one of the most attractive of the city's flower stores, and it will be outfitted in the most modern manner.

The Chicago Florists' Club announces that this club will carry on a national plan of co-operation advertising for Mothers' Day under the direction of F. Lautenschlager, West Erie Station, Chicago. Full particulars will be given later. Chicago Florists' Club publicity committee.

F. LAUTENSCHLAGER, Chairman.

At the meeting of the Detroit Florist Club on March 15 a novel plan of publicity, to stimulate early Easter buying, was adopted. Members have agreed to make an attractive Flower Show in their stores during the first three days of Easter week. In other words each member will make a special effort to decorate his store in a manner which will be extremely pleasing to the public, and at the same time create a desire for Easter flowers.

These shows will be announced by means of large display banners carried on the sides of all florist cars; cards of a similar design will be displayed in the windows and folders enclosed in every package.

Since the florist business is represented in almost every part of the city the scope of this publicity ought to be very far-reaching.

HENRY C. FORSTER.

NEW FLOWER STORES.

Pittsfield, Mass.—The Flower Shop.

Pittsburgh, Pa.—David Hill, 5th Ave.

Amherst, O.—Frank Carek, branch store.

Philadelphia, Pa.—Francis Fay, 53d and Market Sts.

Philadelphia, Pa.—Michaelson Bros., 53d, below Walnut St.

Dorchester, Mass.—James P. Thornton, 240A Bowdoin St.

Los Angeles, Cal.—M. Teifolossy, 316A South Broadway.

St. Louis, Mo.—Delmar Union Flower Shop, 5260 Delmar Blvd.

Portland, Ore.—George Betz, East Morrison St., near Grand Ave.

San Francisco, Cal.—Sea Cliff Florist, 23d Ave., and California St.

Cambridge, Mass.—Howard Flower Shop, Mass. Ave. (branch store).

Leavenworth, Kan.—Sunnyside Floral Co., Henry Knipe, proprietor, removing to Fifth and Delaware Sts. April 1.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.



GUIDE BROS CO
1214 F ST NW
WASHINGTON DC

GUIDE BROS. CO.
WASHINGTON, D. C.

Member Florists Telegraph Delivery

IN THE National Capital

At your service to deliver Flowers
or Designs on Order by Tele-
graph or otherwise. Prompt
Reliable Service.

GEORGE H. COOKE

Connecticut Ave. and L St.
WASHINGTON, D. C.

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

Members Florists' Telegraph Delivery

G. E. M. STUMPP

761 Fifth Ave.

NEW YORK CITY

Member Florists' Telegraph Delivery Asso.

YOUNG & NUGENT

42 West 28 Street
New York

Members Florists' Telegraph Delivery

A. T. BUNYARD NEW YORK

413 Madison Avenue at 48th Street.
Also Newport, R. I.

We Guarantee Satisfaction
MEMBER F. T. D. A.

CHICAGO Send Your Orders to WILLIAM J. SMYTH

Member Florists' Telegraph
Delivery Association

Michigan Ave. at 31st Street

Prompt Auto Delivery
Service

THOS. F. GALVIN
INC.
NEW YORK 561 Fifth Ave.
Vanderbilt Hotel
BOSTON 1 Park Street
799 Boylston Street
Deliveries to Steamers and all Eastern Ports

CLEVELAND

A. GRAHAM & SON
5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

Orders Filled Day or Night for
CLEVELAND
and State of Ohio
Complete Stock. Regular discount to Trade.
KNOBLE BROS.
1896 W. 25th St., Cleveland, O.
Members Florists' Telegraph Delivery Ass'n.

THE SMITH & FETTERS CO.
735 Euclid Avenue
CLEVELAND, OHIO
Flowers of Every Kind in Season

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1532.
1415 Farnum St.,
OMAHA, NEB.

Rochester, N. Y.
J. B. KELLER SONS,
FLORISTS
25 Clinton Avenue, N.
Rochester Phone 506. Long Dist. Bell Phone 278.
Members Florists Telegraph Delivery

S. A. ANDERSON
440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
Stock and prompt deliveries in BUFFALO,
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK
Members of Florists' Telegraph Delivery.

HIGH GRADE PLANTS
For Retail Stores a Specialty
ASK FOR LIST

THOMAS ROLAND. Nahant, Mass.
WORCESTER, MASS.
Randall's Flower Shop
HARRY L. RANDALL, Proprietor.
Mention Florists' Telegraph Association

Flowers by Telegraph

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

Albany, N. Y.—H. G. Eyres, 106 State
St.
Albany, N. Y.—The Rosery, 23 Steuben
St.
Boston—Thos. F. Galvin, 1 Park St.
Boston—Penn the Florist, 124 Tremont
St.
Buffalo, N. Y.—S. A. Anderson, 440 Main
St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan
Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid
Ave.
Cleveland, O.—Adam Graham & Sons,
5523 Euclid Ave.
Cleveland, O.—Knoble Bros., 1836 W. 25th
St.
Cleveland, O.—The Smith & Feters Co.,
735 Euclid Ave.
Denver, Col.—Park Floral Co., 1643
Broadway.
Detroit, Mich.—J. Breitmeyer's Sons,
corner Broadway and Gratiot Ave.
Houston, Tex.—Kerr, The Florist.

Kansas City, Mo.—Samuel Murray, 1017
Grand Ave.
Los Angeles, Calif.—Howard & Smith,
853 So. Olive St.
New London, Conn.—Reuter's.
New York—J. H. Small & Sons, 505 Mad-
ison Ave., at 52d St.
New York—David Clarke's Sons, 2139-
2141 Broadway.
New York—Alex. McConnell, 611 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—A. T. Bunyard, 413 Madison
Ave., at 48th St.
New York—Dards, N. E. corner 44th St.
and Madison Ave.
New York—Max Schling, 22 W. 59th St.
New York—G. E. M. Stumpp, 761 Fifth
Ave.
New York—Thos. F. Galvin, Fifth Ave.,
at 46th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415
Farnum St.
Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave., N.
St. Louis, Mo.—Fred C. Weber, 4326-28
Olive St.
St. Paul, Minn.—Holm & Olson, Inc.
Tarrytown-on-Hudson, N. Y.—F. R. Pier-
son Co.
Toronto, Can.—J. H. Dunlop, 8-10 West
Adelaide St.
Washington, D. C.—Gude Bros., 1214 F
St.
Washington, D. C.—George H. Cooke,
Connecticut Ave. and L St.
Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop,
3 Pleasant St.

Send Telegraph, Telephone or Mail orders
for florist service in this vicinity to

Howard & Smith
853 SO. OLIVE ST.
Los Angeles, Calif.

Every Order sure to receive
prompt and careful attention.

REUTER'S Members Florist:
Telegraph
Delivery

STORES IN

New London and Norwich, Conn.
and Westerly, R. I.

We cover the territory between
New Haven and Providence

ST. LOUIS, MO.

FRED C. WEBER
4326-28 Olive St.

Member Florists Telegraph Delivery Association
NOTICE INITIALS. We have one store only

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

The Far-Famed Flowers of
TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP
8-10 West Adelaide St. - TORONTO, ONT.

ALBANY, N. Y.

EYRES
Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

106 STATE STREET, ALBANY, N. Y.

"THE HOME OF FLOWERS"

The largest cut flower store in America.
Orders for the TWIN CITIES and for all
Northwestern points given prompt at-
tention

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

The Park Floral Co.

J. A. VALENTINE, Pres.

Members Florists' Telegraph Delivery.

DENVER, COLORADO



KERR ORDERS FOR TEXAS
HOUSTON, TEXAS
The Florist Member F. T. D. Association

You Will Get the Easter Orders

IF YOU HAVE THE GOODS THE CUSTOMERS WANT

If Not—Your Competitor Will Get the Business

THE GOODS WE OFFER YOU WILL PLEASE THEM FOR THEY ARE THE BEST IN THE WORLD

We have splendid novelties and all the standard goods in endless variety, Home Manufacture and Imported. Stock up now and have the goods to show customers. Send for catalogue and prices and see how much you can do with a little money when you go straight to headquarters—*The Florists' Supply House of America.*

H. BAYERSDORFER & CO.

Manufacturers and
Importers

1129 Arch Street, PHILADELPHIA, PA.

Write for
Catalogue

During Recess

New York Florists' Club.

The annual dinner of the New York Florists' Club is the outstanding social event of the season, horticulturally.

Each year it is pitched on a more ambitious plane until now it would seem that the limit of ingenuity and aspiration had been reached. It was indeed a carnival of fun, frolic and fashion such as the sumptuous ball room of the aristocratic Biltmore is accustomed to when the "four hundred get together. Our illustration gives a partial view of the affair, but unfortunately, the chief table at which were seated the dignitaries of the S. A. F. and other socie-

ties, together with the club officials, does not appear in the picture.

The after dinner speaking was brief and quickly over, in order to turn over the hall to the dancers. President Geo. E. M. Stumpp presided. He read telegrams and letters from several invited guests unable to be present and voiced the welcome of the New York Florists' Club to the distinguished visitors present. He then introduced President Cabot Ward, of the Park



PARTIAL VIEW OF THE 30TH ANNUAL BANQUET, NEW YORK FLORISTS' CLUB AT THE HOTEL BILTMORE.
The Open Space Was Reserved for Dancing Between Courses

EASTER DELIVERIES

FLOWERS, PLANTS or
MADE=UP=WORK Deliv=
ered On Order to All
Parts of NEW ENGLAND

Penn *The Florist*

Member F. T. D.

124 Tremont St., Boston, Mass.

WORCESTER, MASS.

Better equipped than
ever to fill your orders

*Everything for
EASTER*

**RANDALL'S
FLOWER SHOP**

22 PEARL STREET

Member Florist Telegraph Delivery

Board, who made an idealic and patriotic address and expressed his appreciation of the gold medal awarded to the Park exhibit at the show.

Ex-President Weston was then escorted to the platform, where President Stumpp, on behalf of the members of the N. Y. Florists' Club, presented him with a box of table silver. Mr. Weston gratefully expressed his pleasure and thanks.

W. F. Gude was the next speaker. Long association with the big men of the nation at the Capitol has developed Mr. Gude's oratorical abilities to a remarkable degree and he made a speech which evoked much applause. He advocated the exploitation of Mothers' Day by the florists, but from an altruistic standpoint.

President Kerr, of the S. A. F. was next called upon. He extended kindly greetings from the craftsmen in the South and especially from the convention City of 1916. Hon. Philip Brietmeyer was the next and last speaker. He told of the enormous expansion in the retail flower business within the few years since the F. T. D. had taken hold and gave credit also to the flower shows and the growing efficiency in salesmanship for the commercial ascendancy of the florist business.

Each diner received a tiny potted shamrock and American flag in honor of the day, March 17. Coffee was served in earthen ware cups and saucers furnished by A. H. Hews & Co., flower pot manufacturers.

Detroit Florist Club Bowling League.

Following are the scores and standing of the various teams of the Detroit

Florist Club Bowling League up to date:

Holznaple	163	185	174
Forster	101	149	133
Taepke	150	127	197
Sylvester	191	121	151
Fetters	148	117	172
Jean	122	125	122
J. F. Sullivan	90	112	126
Ralston	141	141	134
E. Sullivan	157	147	155
R. Rahaley	140	167	128
Kirkpatrick	136	158	141
Pautke	147	170	135
McHugh	152	140	134
Dolske	80	184	115
Streit	136	201	144
Taylor	156	146	176
McHugh	126	163	125
Papes	132	121	178
Brown	132	134	106
Streit	156	158	171

Standing.

	W.	L.	Pc.
Bisons	21	6	777
Brownies	19	8	703
Am. Beauties	9	18	333
Mich Cut	5	22	175

CLUB MEETINGS NEXT WEEK.

Monday March 26.

Florists' and Gardeners' Club of Rhode Island, Swartz Hall, Providence, R. I.
Gardeners' and Florists' Club of Baltimore Florist Exchange Hall, Baltimore, Md.

Tuesday, March 27.

Newport Horticultural Society, Newport, R. I.
Tarrytown Horticultural Society, Tarrytown, N. Y.

Wednesday, March 28

Oyster Bay Horticultural Society, Oyster Bay, N. Y.

PHILADELPHIA.

Edward Dornheim, late with Berger Bros., has associated himself with Chas. Allwyne in the growing business at Aldan, Del. Co., Pa. From now on the firm's name will be Allwyne & Dornheim.

In spite of the scoffs of his dear friends Commodore John Westcott has been able to collect fifty dollars for wharfage on the interned "Scotch cruiser McTavish" at Waretown. Now the laugh is with the commodore. A Washington authority on International Law, William F. Gude, advises that the fifty be blown on a dinner to the boys. Sounds reasonable.

St. Louis.—F. H. Weber's new store is looking very fine and business is booming.

J. J. Beneke has been indisposed for quite a while.

ST. LOUIS SHOE NOTES.

Dancing and music and special singers entertained the visitors.

Several thousand school children visited the show on Saturday.

Frank Windler, Joe. Windler, in fact all the Windlers worked hard for the success of the Show.

Morris H. Levine looked anything but a dead one although someone of the same name met an accidental death in New York and he and his family daily receive letters of condolence.

PARIS

LONDON

BERLIN

EASTER DELIVERIES

IN BOSTON AND NEW YORK

We are prepared to deliver in good shape, flowers, plants or made up work as ordered. Florists at a distance may transfer their orders by mail, telegram or 'phone to us with the certainty of prompt and careful attention

Thomas F. Galvin, Inc.

1 Park Street

Boylston and Fairfield Streets

BOSTON, MASS.

Also THOMAS F. GALVIN, Inc., Galvin Building, 561 Fifth Avenue, New York

NEWS ITEMS

CHICAGO.

The Paris Flower Shop, 11 E. Jackson Boulevard has suspended business.

James Mara has opened a store at Riverside, Ill., to be known as Riverside Lawn.

Geo. Fischer has leased the store at 183 N. Wabash avenue, and will leave the basement store in time to have Easter in the new location.

Zech & Mann have everything in readiness for a big Easter business. Some of the best growers in this vicinity are regular consignors to this firm.

E. T. Kurowski, president of the J. C. Moninger Co., has suffered severely with an abscess in his ear. He is on the way to recovery but daily trips to the hospital are still necessary.

The Bentley greenhouses consisting of 110,000 sq. ft. of glass, which were wrecked by the tornado at Newcastle, Ind., a week ago will be rebuilt at once by the J. C. Moninger Co.

Sam Seligman who recently severed his connection with the American Bulb Co., of which he was a member has taken up his former occupation and will again travel for Wertheimer Bros.

H. E. Humiston, of the Chicago Feed & Fertilizer Co., has been advanced to the position of manager of the fertil-

izer department of florists and gardeners which was formerly in charge of Guy Fridley.

St. Patrick's Day furnished the trade with considerable business this year. Besides all the shamrocks sold in the florists' stores, one department store sold 30,000 plants on Friday and could have sold many more on Saturday had they been obtainable. Frank Oechslein had a very heavy stock of shamrock, which cleaned up before the repeat orders came in. The quality was unusually good.

The greenhouse construction companies were well represented at the St. Louis flower show and from their reports it evidently was a good place for business. The American Greenhouse Manufacturing Co. has secured the contract for two additional houses, 36 x 300, for the W. A. Rowe Floral Co., Kirkwood, Mo. Another of their customers who is a rose expert—Chas. Steidle of Olivette, Mo.—will grow Mrs. Russell, Ophelia, White Russell and Mrs. Sawyer as his principal stock next year.

Miss Sietmann, of the J. A. Budlong office force, is ill and Mrs. Philip Schupp is again on duty. Mr. Schupp, manager, says their large range of houses will supply a high grade of Easter stock this year and their shipping trade will be supplied with

flowers fresh from their own plants. J. A. Budlong is one of the oldest houses in Chicago, the third generation now taking a part in the business. When the start was made, the land was far out in the country, but now it is well within the city limits.

Mr. and Mrs. Adolph Poehlmann have been celebrating the 25th anniversary of their marriage. Mr. Poehlmann presides over Plant "B" at Morton Grove, where 47 houses, 27 x 350 ft., are devoted to roses, one-seventh of which is Mrs. Chas. Russell. That here is a fine outlook for Easter stock is seen at a glance. At Plant "A" their Easter trade will be supplied with lilies from 10,000 plants of formosum, while 25,000 pots of Giganteum will furnish the lily plants. There will be a large supply of carnations, especially in white and pink, if weather favors the 172,000 plants in the carnation range.

PITTSBURGH.

J. S. Irwin has opened a new flower shop in Monessen. Arthur Godfrey has also started a similar enterprise in Tarentum.

Mrs. C. C. Espy of Brookville, whose flower shop was destroyed by fire about six months ago, has resumed business again in the new Young Men's Christian Association building.

George W. Marshall, manager of the McCallum Co., has been seriously ill for the past ten days with a malady, which has recently appeared and is baffling the skill of physicians hereabouts.

Alexander McConnell

611 Fifth Avenue, Corner of 49th Street

Cable Address, ALEXCONNELL

NEW YORK CITY

Reference or cash must accompany all orders from unknown correspondents

EASTER FLOWER DELIVERIES IN CHICAGO

For Reliability, Quality and Promptness
Send Your Orders to

WILLIAM J. SMYTH

Michigan Ave.
at 31st Street

Member Florists' Telegraph
Delivery

Auto Delivery
Service

IN THE NATIONAL CAPITAL

Send us your orders for Washington, D. C. and the surrounding country.

We have the **Best Stock, Quickest and Most Satisfactory Service. Prices Right.** We carry the largest stock by far of any Retail Flower Store in the East.

REMEMBER, every customer must be satisfied.—If not, either the order will be duplicated or no pay accepted.

GUDE BROS. COMPANY

WASHINGTON, D. C.

Members Florists' Telegraph Delivery Association

FOR DETROIT

AND ALL ADJACENT POINTS

Send Your Orders for Easter Delivery to

JOHN BREITMEYER'S SONS

26 and 28 Broadway

Prices, Quality and Service; None Better

MEMBER F. T. D. A.

The Leading Flower Establishment of

KANSAS CITY



Will arrange and deliver orders from the trade for flowers,
plants or design work anywhere in the middle west.

All Goods and Service Strictly First-Class

Samuel Murray

1017 Grand Avenue, KANSAS CITY, MO.

MEMBER OF FLORISTS' TELEGRAPH DELIVERY

HENRY M. ROBINSON & CO., Inc., BOSTON, MASS.

EASTER LILIES 12¹/₂ IN POTS OR CUT cents per bud or blossom

Place your orders with us now for immediate and Easter deliveries

As we handle the stock of over one hundred of the best growers in New England, we are prepared to fill all orders promptly and satisfactorily. We have hundreds of satisfied customers, and we feel certain that we can please you. We can supply the following varieties of flowers in best qualities at lowest prices:

ROSES American Beauty, Sunburst, Ward, Ophelia, Hoosier Beauty, Hadley, Black Beauty, Richmond, Scott Key, Milady, Maryland, Stanley, Pink Killarney, White Killarney, Russell, Mock, Montrose.

CARNATIONS—Ward, Matchless, Enchantress, Enchantress Supreme, Delight, Benora, Beacon, Harry Fenn, Rosette, Morning Glow.

VIOLETS—**SWEET PEAS**—Valley, Orchids, Primroses (polyanthus), Gardenias, Wall Flowers, Mignonette, Marguerites, Pansies.

JONQUILS (Single and Double). **TULIPS**—Lorain, Murillo. Paper White Narcissus, Callas Snapdragon, Cornflower.

GREENS—Sprenger, Asparagus, Adiantum, Smilax, Wild Smilax.

HENRY M. ROBINSON & CO., Inc., WHOLESALE FLORISTS
2 WINTHROP SQUARE
32 OTIS STREET **Boston, Mass.**

Telephones
Main, 2439-2616-2617-2618
Fort Hill 25290

MANUFACTURERS AND IMPORTERS OF FLORISTS' SUPPLIES
HARDY CUT EVERGREENS

Unknown customers please
give reference, or cash with
order.

FOR NOW AND EASTER

We carry the stock of the Best Growers in New England
Roses, Carnations, Lilies, Orchids, Valley and all other
Seasonable Flowers

WE AIM TO PLEASE. A PLEASED CUSTOMER IS OUR BEST AD.
(The House of Quality)

B. A. SNYDER CO. **278 Devonshire St.**
Boston, Mass.

Telephones Fort Hill 1083 and 1084

NEW YORK.

Frank Millang reports a full supply of home-grown asparagus and does not handle the southern grown.

Lincoln Pierson of the Pierson U-Bar Co., who has been in poor health for a long time, is now well restored and looks the picture of good health.

A. L. Young is preparing to extend his show window and make other alterations for the promotion of efficiency in his establishment on 28th street.

Auburn, Me. Fire destroyed a greenhouse belonging to Oliver Dechene on March 14.

For Easter

Anemone, Trailing Arbutus, Calendula, Daffodils, Pansies, Forgetmenots, Single Violets, Corn Flowers, and many novelties. Smilax, and other Easter Flowers, and Greens. All of Select Quality.

HERMAN WEISS, 106 West 28th St., N. Y.

Wholesale Commission Florist

Telephones, Farragut 634 and 3066

HADLEY

BURNS QUALITY

The King of Roses, *Unbeatable*

For Sale Only by

P. J. SMITH

131 West 28th St., - - - New York

Also All Other High Quality Flowers for EASTER

Never A Shortage Here

We are prepared at all times to fill orders, be stock scarce or otherwise

If you want good stock and good treatment

Send Your Orders to this Old Reliable Establishment

EASTER LILIES, ROSES, CARNATIONS

Valley, Sweet Peas, Lilies, Narcissi, Jonquils, Violets, Calendulas, Snapdragons, Stocks, Freesia, Callas, Tulips, Darwins, Mignonette, Daises, Pansies, Feverfew, Romans and all other seasonable stock; also Greens such as Ferns, Asparagus Sprenger, Green and Bronze Galax, Leucothoe Sprays, Adiantum, Mexican Ivy and Boxwood. We have Home Grown Asparagus, hence never a shortage here.

Chicago's Most Up-to-date and best located Wholesale Cut Flower House

SEND FOR OUR EASTER PRICE LIST

Quality
Speaks
Louder
Than
Prices

J. A. BUDLONG

184 North Wabash Ave., Corner Lake St., CHICAGO

ROSES, VALLEY
and CARNATIONS
A Specialty.....

WHOLESALE
Grower of

CUT FLOWERS

Prices
As
Low
As
Others



SHIPPING ORDERS GIVEN CAREFUL ATTENTION

We are in daily touch with market conditions and when a decline takes place you can rely upon orders sent us receiving such benefits.

EASTER LILIES

The Kind that Give Satisfaction

In Crates of 25 Plants, Ready for Shipment
Price \$12.00 per 100 Flowers and Buds

ROSES IN ALL THE STANDARD VARIETIES

All the Best Carnations in Exceptional Quality ; Yellow Daisies, Primroses,
Lily of the Valley and Spring Bulb Flowers ; Violets, Sweet Peas, Snapdragon

IT WILL BE TO YOUR ADVANTAGE TO GET OUR PRICES BEFORE LOOKING
ELSEWHERE. NO RETAIL ORDERS ACCEPTED

PRICE LISTS READY NOW

PLACE ORDERS EARLY

WELCH BROS. CO.

262 DEVONSHIRE ST.

BOSTON, MASS

Telephone Main 6267

1887

A Record

1917

of more than a quarter of a century and
"Still Going Strong"

I am so well known to both buyers and consignors in New York that perhaps I don't need to advertise, but it will do no harm to remind the trade that I am still in the Wholesale Flower Business, ready daily from 6 a. m. to do business and do it to the satisfaction of all.

For Easter Trade

I shall have a large and dependable supply of well-grown flowers. If you are in want give us a trial.

To Growers: I have room always for more good stock.

J. K. ALLEN

Commission Florist

118 West 28th St.

NEW YORK

FOR EASTER

The largest supply of **Asparagus Plumosus** from the largest Growing Establishments in this country

The finest **Lilies** and **Callas** in the market

Matchless, Ward and Enchantress Supreme Carnations of the highest quality

TULIPS IN 30 DIFFERENT VARIETIES

FREESIAS, SNAPDRAGONS, SWEET PEAS

Smilax by the dozen, hundred or thousand strings

Agents for New York Florists' Supply Company's **Galax** and **Ferns**

No Shipping Orders Desired

PHILIP F. KESSLER

55 and 57 WEST 26th STREET

NEW YORK

Office Telephone: Farragut 5243

Residence: Newtown 345-J

WE ARE NOW READY TO BOOK YOUR

EASTER ORDERS

WE SHALL HAVE A LARGE SUPPLY OF

ORCHIDS, LILAC and LILY OF THE VALLEY of the Highest Quality

**CARNATIONS LILIES ACACIA GARDENIAS
BULBOUS STOCK VIOLETS**

GEO. C. SIEBRECHT,

109 West 28th St.
NEW YORK

Telephone, 608-609 Farragut

EASTER

AND ALL THE YEAR

CHOICE CUT FLOWERS

ROSES A SPECIALTY

All the New and Standard Varieties and Seasonable Cut Flowers

H. E. FROMENT

148 West 28th Street

NEW YORK

BEAUTIES

Roses, Carnations, Lilies,
Gardenias, Spencer Peas

are the leaders with us for Easter. Send for
complete list and prices.

THE LEO NIESSEN CO.

Wholesale Florists

1201-05 Race Street,

PHILADELPHIA, PA.

The B-U-Y Word

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For **QUALITY**
and **SERVICE**

We are Wholesale Florists Do-
ing a Strictly Wholesale Business

Long Distance { Central 3283
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30 E. Randolph St. - Chicago

EDWARD REID WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.

CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

W. A. LEONARD J. M. DEUTSCHER
Bell, Locust 1497 Keystone, Race 1656

Philadelphia Wholesale Florist Exchange

1615 Ranstead St., PHILADELPHIA, Pa.

Wired Toothpicks

Manufactured by

W. J. GOWEE, Berlin, N. Y.

10,000...\$1.85. 50,000...\$8.00. Sample free.
For sale by dealers.

E. G. HILL CO.

Wholesale Florists

RICHMOND, IND.

Please mention Horticulture when writing.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

264 RANDOLPH ST., DETROIT, MICH.

The House for Quality and Service

ZECH & MANN

We are Wholesale Florists Doing
a Strictly Wholesale Business

30 East Randolph Street, CHICAGO



POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut Flower Market

Daily consignments from leading growers Full line of Florists' Supplies Write for quotations before ordering elsewhere

262B DEVONSHIRE ST., BOSTON, MASS.
Telephone, Main 6267-6268

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON Mar. 22		ST. LOUIS Mar. 19		PHILA. Mar 19	
Roses						
Am. Beauty, Special..	50.00	to 75.00	40.00	to 50.00	50.00	to 60.00
" " Fancy and Extra..	20.00	to 35.00	20.00	to 30.00	30.00	to 40.00
" " No. 1 and culls..	4.00	to 8.00	3.00	to 6.00	6.00	to 25.00
Russell, Euler, Mock..	2.00	to 10.00	3.00	to 12.00	4.00	to 20.00
Hadley..	4.00	to 12.00	.....	to	5.00	to 15.00
Arenberg, Hoosier Beauty..	4.00	to 10.00	.....	to	4.00	to 12.00
Ward..	2.00	to 8.00	3.00	to 6.00	4.00	to 10.00
Killarney, Radiance, Taft..	2.00	to 9.00	2.00	to 6.00	4.00	to 10.00
Ophelia, Sunburst, Hillingdon..	4.00	to 10.00	3.00	to 8.00	4.00	to 12.00
Key..	6.00	to 12.00	.....	to	6.00	to 15.00
Carnations	1.00	to 2.50	2.00	to 4.00	1.00	to 3.00
Cattleyas..	30.00	to 40.00	.....	to 50.00	30.00	to 50.00
Dendrobium formosum..	.....	to 50.00	.....	to .....	.....	to
Lilies, Longiflorum..	8.00	to 10.00	.....	to 12.50	8.00	to 10.00
Lilies, Speciosum..	6.00	to 8.00	.....	to .....	.....	to
Callas..	6.00	to 8.00	10.00	to 15.00	8.00	to 10.00
Lily of the Valley..	3.00	to 5.00	.....	to 6.00	4.00	to 6.00
Snapdragon..	3.00	to 6.00	.....	to	4.00	to 15.00
Daffodils..	1.00	to 2.00	1.50	to 2.00	2.00	to 3.00
Narcissi, Paper White..	1.50	to 2.00	.....	to 2.00	2.00	to 3.00
Roman Hyacinths..	.....	to .....	.....	to .....	.....	to
Freesia..	1.50	to 4.00	.....	to 2.00	1.00	to 4.00
Tulips..	1.50	to 5.00	2.00	to 4.00	2.00	to 4.00
Calendulas..	2.00	to 3.00	.....	to	2.00	to 3.00
Sweet Peas..	.35	to 1.00	.25	to .75	.40	to 1.50
Violets..	.20	to .40	.20	to .30	.20	to .75
Marguerites..	1.00	to 3.00	.....	to .....	.50	to 1.50
Gardenias..	2.00	to 12.00	.....	to	5.00	to 20.00
Adiantum..	1.00	to 1.50	.....	to 1.00	1.00	to 1.50
Smilax..	12.00	to 20.00	12.50	to 15.00	20.00	to 25.00
Asparagus Plumosus, & Spreng. (100 Bchs.)	25.00	to 35.00	25.00	to 35.00	25.00	to 50.00

WILLIAM F. KASTING Co.

Wholesale Florists

568-570 WASHINGTON STREET - BUFFALO, N. Y.

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER of

CUT FLOWERS



BEAUTIES

Those splendid deep colored flowers that are a delight and a pleasure to handle

Special, \$60.00 Fancy, \$50.00 Extra, \$40.00
First, \$25.00 Second, \$12.50
Per 100

A splendid crop for Easter week. Write for quotations.

S. S. PENNOCK-MEEHAN CO.

THE Wholesale Florists of PHILADELPHIA

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117 W. 28th St.

PHILADELPHIA
1608-1620 Ludlow St.

BALTIMORE
Franklin & St. Paul Sts.

WASHINGTON
1216 H St., N.W.

Flower Market Reports

BOSTON We have had occasion more than once of late to say that this market was suffering from a superfluity of material. But the situation at present puts all past experience in the shade if one is to judge by the burden of daffodils, carnations, lilies, callas, tulips, sweet peas and other flowers that stand unsold on the market tables and crowd the wholesalers' ice chests. Everything that goes to make up the daily stock in trade at this season of the year is heavily over stocked, with the exception, perhaps, of roses. These do not appear to suffer so much. Warm days are due and the immediate outlook is far from cheerful for the dealers. Under the circumstances, price quotations have but small significance.

Good stock is moving
CHICAGO fairly well. Cold weather and cloudy days have tended to keep back any excess of roses and the shortening up of this stock has not been to the disadvantage of the grower. Carnations have either been a little less in evidence or more in demand for the counters and ice boxes have held less unsold stock at the close of day than during most of the season. Bulbous stock is still in very great supply, there seemingly being no end to the daffodils and tulips. Lilies are coming rather freely and a limited amount of callas find ready sale. Violets are plentiful and sales are inclined to drag. Sweet peas are here in quantity and cover a wide range in quality and price. There is also quite a supply of miscellaneous stock including calendulas, marguerites, pansies, snapdragons, forget-me-nots, mignonettes, etc. Green is not any too plentiful and demand is good.

Business is good.
CINCINNATI Last week's business finish was excellent. A brisk demand took up a good supply. Roses and carnations are fairly plentiful. Lilies are abundant and excellent. Plenty of good bulb stock is coming in. Callas and Robrum lilies have a fair sale.

Business continues dull and irregular.
NEW YORK Unquestionably the perturbed condition and anxiety over

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI Mar. 19		CHICAGO Mar. 19		BUFFALO Mar. 19		PITTSBURG Mar. 19	
Roses								
Am. Beauty, Special.....	45.00	to 50.00	40.00	to 50.00	.....	to 60.00	50.00	to 75.00
" " Fancy and Extra.....	30.00	to 40.00	30.00	to 40.00	35.00	to 40.00	30.00	to 40.00
" " No. 1 and culls.....	8.00	to 20.00	6.00	to 15.00	8.00	to 15.00	15.00	to 20.00
Russell, Euler, Mock.....	.....	to	4.00	to 25.00	6.00	to 8.00	10.00	to 15.00
Hadley.....	.....	to .....	.....	to	6.00	to 10.00	.....	to
Arenberg, Hoosier Beauty.....	6.00	to 15.00	.....	to	6.00	to 10.00	.....	to
Ward.....	5.00	to 8.00	3.00	to 12.00	4.00	to 6.00	4.00	to 10.00
Killarney, Radiance, Taft.....	4.00	to 10.00	3.00	to 12.00	8.00	to 12.00	6.00	to 13.00
Ophelia, Sunburst, Hillingdon.....	6.00	to 15.00	4.00	to 12.00	5.00	to 10.00	6.00	to 12.00
Key.....	.....	to .....	.....	to .....	.....	to .....	.....	to
Carnations	2.00	to 4.00	3.00	to 4.00	2.00	to 3.00	3.00	to 4.00
Cattleyas.....	.....	to 75.00	40.00	to 50.00	40.00	to 50.00	50.00	to 75.00
Dendrobium formosum.....	.....	to 15.00	.....	to .....	.....	to	20.00	to 25.00
Lilies, Longiflorum.....	.....	to 12.50	12.00	to 15.00	10.00	to 12.00	.....	to 15.00
Lilies, Speciosum.....	.....	to .....	.....	to	4.00	to 6.00	.....	to
Callas	8.00	to 10.00	10.00	to 12.50	8.00	to 12.00	.....	to
Lily of the Valley.....	.....	to 7.00	5.00	to 6.00	5.00	to 6.00	4.00	to 6.00
Snapdragon	6.00	to 12.00	6.00	to 12.00	5.00	to 8.00	4.00	to 12.00
Daffodils	3.00	to 4.00	2.00	to 3.00	2.50	to 3.00	2.00	to 3.00
Narcissi, Paper White.....	.....	to 3.00	2.00	to 3.00	2.00	to 3.00	2.00	to 3.00
Roman Hyacinths	2.00	to 3.00	.....	to	2.00	to 3.00	.....	to
Freesia	2.00	to 3.00	2.00	to 4.00	2.00	to 3.00	3.00	to 6.00
Tulips	3.00	to 4.00	2.00	to 4.00	2.50	to 3.00	3.00	to 4.00
Calendulas	3.00	to 4.00	2.00	to 3.00	3.00	to 4.00	2.00	to 4.00
Sweet Peas.....	.75	to 1.50	.50	to 1.00	.75	to 2.00	.50	to 1.50
Violets.....	.50	to .75	.25	to 1.00	.30	to .50	.35	to .50
Marguerites.....	.75	to 1.00	.50	to 1.00	1.00	to 1.50	2.00	to 3.00
Gardenias.....	.....	to .....	.....	to .....	.....	to .....	.....	to
Adiantum.....	.....	to 1.00	1.00	to 1.25	1.00	to 1.25	.75	to 1.25
Smilax.....	.....	to 15.00	15.00	to 20.00	.....	to 15.00	.....	to 15.00
Asparagus Plu. & Spreng. (100 Bhs.)	25.00	to 50.00	25.00	to 50.00	25.00	to 50.00	30.00	to 40.00

the entire country getting more and more acute daily has an adverse effect on the flower business, and this fact might as well be reckoned with. The people who figure so largely in putting money in circulation in a place such as New York is, are uneasy and cautious and the flower business is naturally one of the first to feel the influence. This week the flower show dominates all, and the usual stir and bustle incident to the season in the wholesale districts is missing. As in previous weeks the overstock on certain lines of staple goods in heavy and sales in quantity are made only at a considerable sacrifice. The prices obtained for bulb flowers such as tulips and the various narcissi would scarcely pay for the cost of the bare bulbs. Carnations, callas, sweet peas, lilies and some of the roses are also on the bad side of the market, with a burdensome surplus and not all of the best quality. Many of the Formosum lilies are badly split and ragged. Cattleyas are now getting on the scarce side and if any lively call should materialize the demand would be filled with difficulty. Of anemones, calendulas, myosotis, pansies, daisies, cornflowers and other promiscuous material there is a

surfeit. Smilax is scarce and the demand for nice asparagus sometimes exceeds the available stock. Large quantities of trailing arbutus are coming in daily from southern points.

The-march-to-the
PHILADELPHIA grave funeral
spirit does not

seem so pronounced among the growers' agents this morning. From what little I can gather they are having a fairly good inning. While prices have ruled rather low on most of the staples the accumulations of the past week found a market, and by Saturday night "Jerry" had come out better than I thought he would. "Jerry" only comes out decent after all the others have got theirs. And not even then if the retailers happen to get a suspicion of it. "Jerry" happens to be the small grower who has to take a back seat in the big operations of the big dealers. It's only when things are a little scarce that "Jerry" gets a show. Daffodils were far too plentiful. The same may be said of gardenias. We saw nice fresh gardenia flowers being offered on Chestnut street, Saturday night at two for a

(Continued on page 397)

H. E. FROMENT

Wholesale Commission Florist
Choice Cut Flowers

New Address, 143 West 28th St., NEW YORK

Telephones: 2200, 2101, Madison Square.

HENTZ & NASH, Inc.

Wholesale Commission Florists

55 and 57 West 26th Street

Telephone No. 755
Farragut New York

WM. P. FORD

Wholesale Florist

107 W. 28th Street, NEW YORK

Telephone 5335, Farragut.

Call and inspect the Best Establishment
in the Wholesale Flower District.

GEO. C. SIEBRECHT

WHOLESALE FLORIST

109 WEST 28th ST

CONSIGNMENTS SOLICITED

PHONE { 608 } FARRAGUT NEW YORK
609

JOHN YOUNG & CO.

WHOLESALE FLORISTS

53 WEST 28th STREET NEW YORK CITY

Consignments Solicited

Phone 7362 Madison Square

THE KERVAN COMPANY

Ferns, Mosses, Wild Smilax, Galax,
Lencothoe, Palmetto, Cycas, both fresh
cut and prepared.

Laurel, Hemlock, all Decorative Evergreens.

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0900

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Brooklyn's Foremost and Best

WHOLESALE COMMISSION HOUSE

A First Class Market for all CUT FLOWERS

28 Willoughby St., Brooklyn, N. Y.

M. C. FORD

121 West 28th St., NEW YORK

FINE ROSES, FANCY CARNATIONS

A Full Line of ALL CUT FLOWERS.
Telephone 3870 Farragut.

GEORGE B. HART

WHOLESALE FLORIST

24 Stone St., Rochester, N. Y.

RIEDEL & MEYER, Inc.
Wholesale Commission
READY FOR BUSINESS

49 WEST 28th ST. NEW YORK.

P. J. SMITH

WHOLESALE COMMISSION FLORIST SELLING AGENT FOR
LARGEST GROWERS

A full line of Choice Cut Flower Stock for all purposes.

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ALBANY CUT FLOWER EXCHANGE

THOMAS TRACEY, Mgr. 611 Broadway, ALBANY, N. Y.
WHOLESALE ONLY

SAVE TIME AND MONEY BY SENDING YOUR ORDERS TO US

Prices Right. Consignments Solicited. Telephone Connection

Centrally Located, The Hub of the Flower Market Section

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Wholesale Florist

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ORCHIDS - - GARDENIAS

HEADQUARTERS for the entire output of the

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PAUL MECONI—Wholesale Florist—NEW YORK

Telephone Nos. 3864 and 8364 Madison Square

57 WEST 26th STREET

A GOLD MEDAL is not expected by us for doing our duty by our consignors and customers

We have 22 years' experience behind us

FANCY GRADE ORCHIDS, SEPTEMBER MORN, AMERICAN BEAUTY, PRIMA
DONNA AND ALL OTHER ROSES, LILIES, CARNATIONS, VIOLETS,
ASPARAGUS AND SMILAX and all other Seasonable Flowers.

GUTTMAN & RAYNOR, Inc., Wholesale Florists

Phones: Farragut 558, 2036 and 2037

101 West 28th Street, NEW YORK

NEW YORK QUOTATIONS PER 100. To Dealers Only**ROSES AND CARNATIONS**

	Last Half of Week ending Mar. 17 1917		First Half of Week beginning Mar. 19 1917	
American Beauty, Special	50.00	to 75.00	50.00	to 75.00
" " Fancy and Extra	30.00	to 40.00	30.00	to 40.00
" " No. 1 and culls	8.00	to 15.00	8.00	to 15.00
Russell, Euler, Mock	4.00	to 15.00	3.00	to 15.00
Hadley	15.00	to 75.00	12.00	to 75.00
Arenberg, Hoosier Beauty	2.00	to 10.00	2.00	to 10.00
Ward	1.00	to 10.00	1.00	to 10.00
Killarney, Radiance, Taft	1.00	to 5.00	1.00	to 5.00
Ophelia, Sunburst, Hillingdon	2.00	to 10.00	2.00	to 10.00
Key	3.00	to 12.00	3.00	to 12.00
Carnations	1.00	to 3.00	1.00	to 3.00

WALTER F. SHERIDAN

Wholesale Commission Dealer in

CHOICE CUT FLOWERS

133 West 28th Street, New York

Telephone—5532-3533 Madison Square

JOSEPH S. FENRICH

WHOLESALE FLORIST

Methods Fair and Liberal. Relations
Satisfactory and Profitable.

51 W. 28th Street, New York

Telephones, 1623-24-25 Mad. Sq.

Frank H. Traendly

Charles Schenck

TRAENDLY & SCHENCK

Wholesale Florists

436 6th Avenue, Between 26th and 27th Sts., New York

Telephones: 797, 798, 799 Farragut

Consignments Solicited

WALTER R. SIEBRECHT CO.

Incorporated

Wholesale Commission Florists

Orchids, Gardenias and Many Unusual
Flowers of Quality

114 West 28th Street

NEW YORK

**HENRY M. ROBINSON CO. OF NEW YORK
WHOLESALE FLORISTS**

55-57 West 26th Street

Telephones, 12—3510 Madison Square

MAURICE L. GLASS, Treasurer

Consignments Solicited

The Chicago Flower Growers' Association

Wholesale Growers of Cut Flowers and Plants

182 N. Wabash Ave., CHICAGO

COMPLETE LINE

Quality Cut Flowers and Greens. Everything Seasonable—Prices Reasonable

COMMISSION DEALER

FRANK MILLANG

HOME GROWN ASPARAGUS

CUT FLOWERS

IN ANY QUANTITY

55-57 W. 26th St., NEW YORK

Beechwood Heights Nurseries

Importers and Growers of

ORCHIDS

Cut Flowers of All the Leading Varieties in their Season.

THOMAS YOUNG, Jr., Proprietor

BOUND BROOK, N. J.

Also 57 West 28th St., NEW YORK.

REED & KELLER

122 West 25th St., New York

Florists' Supplies

We manufacture all our

Metal Designs, Baskets, Wire Work & Novelties

and are dealers in

Decorative Glassware, Growers and

Florists' Requisites

Flower Market Reports

(Continued from page 395)

nickel. All roses were in good demand especially the red and dark pinks. The medium grades of American Beauty are not much in evidence as yet, but there is quite a good supply of specials and shorts. Carnations are holding their own well—some rose growers think, too well. Some carnation growers are grouching otherwise, and are thinking of going into roses. Can you beat it? Have a heart! Don't be jealous. We are all christians. When a man smites us on one cheek we turn to him the other also. Greens are still at a premium. Frost in Florida! Let us call a meeting of the Frost Protective Association.

PITTSBURGH Business continues fair, cut blooms of practically all kinds bringing good prices. Roses continue on the scarce side, those coming in being of good quality, but not enough by any means to satisfy the demand. Bulb products of all varieties are plentiful and of a desirable quality.

ST. LOUIS The market is well supplied with flowers. Last week all light colored carnations held firm, especially white which brought 5c. for coloring purposes. Roses are coming in fine and are cheaper. Violets are becoming smaller and sweet peas will now be used more freely for street corsage wear. "Green" carnations were every-

(Continued on page 392)

PATRICK WELCH, WHOLESALE FLORIST

262 DEVONSHIRE STREET, BOSTON, MASS.

American Beauties, Orchids, Valley, Carnations. All the novelties in the Cut Flower Market furnished on short notice. Prices quoted on application. No retail orders accepted. Flowers shipped out of Boston on early trains.

STORE OPEN FOR BUSINESS AT 6 A. M. TELEPHONE MAIN 2698.

HERMAN WEISS WHOLESALE FLORIST

Can handle shipments of growers' product satisfactorily. Would like to hear from Growers of Snapdragons and Sweet Peas, etc., for the New York trade.

106 West 28th St., NEW YORK

Tel. Farragut 3066

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Mar. 17 1917		First Half of Week beginning Mar. 19 1917	
Cattleyas	15.00	to 35.00	15.00	to 35.00
Dendrobium formosum	.....	to 60.00	.....	to 60.00
Lilies, Longiflorum	5.00	to 8.00	5.00	to 8.00
Lilies, Speciosum	3.00	to 8.00	2.00	to 8.00
Callas	6.00	to 10.00	6.00	to 10.00
Lily of the Valley	1.00	to 5.00	1.00	to 5.00
Snapdragon	3.00	to 5.00	3.00	to 5.00
Daffodils	1.00	to 1.50	1.00	to 1.50
Narcissi, Paper White	1.00	to 1.50	1.00	to 1.50
Roman Hyacinths	1.00	to 2.00	1.00	to 2.00
Freesia	.50	to 2.00	.50	to 2.00
Tulips	1.00	to 3.00	1.00	to 3.00
Calendulas	1.00	to 2.00	1.00	to 2.00
Sweet Peas	.10	to 1.00	.10	to 1.00
Violets	.25	to .50	.25	to .50
Marguerites	1.00	to 2.00	1.00	to 2.00
Gardenias	3.00	to 25.00	3.00	to 25.00
Adiantum	.50	to 1.00	.50	to 1.00
Smilax	12.00	to 15.00	12.00	to 15.00
Asparagus Plumosus, & Spreng (100 bunches)	15.00	to 35.00	15.00	to 35.00

J. J. COAN, INC.

115 WEST 25TH STREET
New York

Tel., Farragut 5413-5591

EVERYTHING IN CUT FLOWERS
CONSIGNMENTS SOLICITED

H. M. ROBINSON & CO.

BOSTON'S FOREMOST

Wholesale and Commission Florists

82 Otis Street, 2 Winthrop Square
BOSTON, MASS.

Telephone 2618-2617-2616, Main.

Send Flower Consignments to

L. B. NASON

Wholesale Florist

116 West 28th St., NEW YORK CITY

Shipping Orders Carefully Filled.
Correspondence solicited.
Telephone, Farragut 2246.

UNITED CUT FLOWER CO., INC.

Flowers Sold on Commission

Consignments of
Good Stock Solicited

111 W. 28th St., - NEW YORK

A CLEAN RECORD

for 28 years as Commission Florist

J. K. ALLEN

TELEPHONE 118 West 28th Street

107 & 3058 Farragut NEW YORK

Established 1888

Tel. 551 Farragut

GUNTHER BROS.

Wholesale Commission Florists

110 West 28th St., New York

We Solicit Consignments of New
England Grown Novelties.

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Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

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ASPARAGUS

Asparagus Plumosus Seedlings, \$1.00 per 100, \$5.00 per 1000. Ready May 1st. COL-LINGDALE GREENHOUSES, Collingdale, Pa.

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BAY TREES. Write for wholesale price-
net.
JULIUS ROEHR'S CO., Rutherford, N. J.

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White Marsh, Md.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

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Md.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
Tuberous Rooted Begonias.
For page see List of Advertisers.

BOILERS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Co., North Tonawanda,
N. Y.

"King Ideal" Boiler.

For page see List of Advertisers.

Hitchings & Co., New York City.

For page see List of Advertisers.

Lord & Burnham Co., New York City.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

BOX TREES

August Rolker & Sons, New York City.
For page see List of Advertisers.

BOX TREES—Standards, Pyramids and
Bush. Price list on demand.

JULIUS ROEHR'S CO., Rutherford, N. J.

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J. M. Thorburn & Co., New York City.
Lillium Harrisii.

For page see List of Advertisers.

American Bulb Co., Chicago, Ill.

French and Dutch Bulbs.

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Rynveld Bros., Lisse, Holland,
and 44 Whitehall St., New York City.
Spring Bulbs.

C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK BRANCH, 8-10 Bridge St.

CALADIUMS

Henry F. Michell Co., Philadelphia, Pa.
Fancy Leaved.

CANNAS

Arthur T. Boddington Co., Inc., New York
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CARNATION STAPLES

Split carnations quickly, easily and
cheaply mended. Pillsbury's Carnation
Staple, 1000 for 35c.; 3000 for \$1.00 post-
paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

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"Hamburg Late White" Chrysanthemum.
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DAHLIAS

Peony Dahlia Mrs. Frederick Grinnell.
Stock For Sale.

JOHN P. ROONEY, New Bedford, Mass.

20 Dahlia tubers, all different, correctly
labeled, postpaid, \$1.00. Six sets, (120
bulbs), \$5.00. Bulb and Seed catalog free
BUNGALOW GARDENS, Netcong, N. J.

ORDERS BOOKED ANY TIME

For Fall or Spring delivery. Wholesale and
Retail. Send for Catalogue. NORTHBORO
DAHLIA & GLADIOLUS GARDENS, J. L.
Moore, Prop., Northboro, Mass.

NEW PAEONY DAHLIA

John Wanamaker, Newest, Handsomest,
Best. New color, new form and new habit
of growth. Big stock of best cut-flower
varieties. Send list of wants to
PEACOCK DAHLIA FARMS, Berlin, N. J.

DECORATIVE PLANTS

Julius Roehrs Co., Rutherford, N. J.
Choice Flowering and Foliage Plants.
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W. W. Edgar Co., Waverly, Mass.
The Best of Everything for Easter.

5,000 Pans of TULIPS, HYACINTHS,
DAFFODILS, etc., for Easter, 30c. and 60c.
each; very fine, large choice bulbs, all
colors, short and stocky, in bud or bloom;
as good as can be grown, 4 to 7 bulbs of
Hyacinths, Tulips and Daffodils in 6-inch
pans; 7 Hyacinths, 14 Tulip bulbs, and 18
to 25 flowers in 8-inch pans. Best in Mas-
sachusetts. I. QUINT, 129 Walnut avenue,
Roxbury, Mass. Tel. Roxbury 51921. Order
Early.

FERNS

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Small Ferns for Dishes.
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Scottil Ferns, 2½ in. pots.....\$5.00 per 100
" 3 in. pots..... 8.00 "
Boston " 2½ in. pots..... 5.00 "
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The Dwelle-Kaiser Co., Buffalo, N. Y.
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Metropolitan Material Co., Brooklyn, N. Y.
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Greenhouse glass, lowest prices. JOHN-
STON GLASS CO., Hartford City, Ind.

GLASS—6 x 8, 8 x 10, 10 x 12, 10 x 14, \$2.25
per box. Other sizes at factory prices.
C. N. ROBINSON & BRO., Dept. 29, Balti-
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Spraying Results Guaranteed.
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English Ivy—Rooted cuttings, 90c. per
100 prepaid. Extra strong from soil 6-8 in.
\$1.25. CHAS. FROST, Kenilworth, N. J.

KENTIAS

Henry A. Dreer, Philadelphia, Pa.

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Horticultural Importers and Exporters.
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In writing to Advertisers kindly mention Horticulture

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Importers and Growers of Orchids.
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Lager & Hurrell, Summit, N. J.
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HASSALL & CO., Orchid Growers and
Raisers, Southgate, London, England. Im-
mense stock of Cattleyas.

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PETUNIAS

R. Vincent, Jr. & Sons Co., White Marsh,
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PEONIES

Peonies. The world's greatest collection.
1200 sorts. Send for list. C. BETSCHER,
Canal Dover, O.

Complete manuals on the Peony, Iris and
Phlox. 25 cents each in stamps. C. S.
HARRISON, York, Nebraska.

PECKY CYPRESS BENCHES

Metropolitan Material Co., Brooklyn, N. Y.
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A. T. Stearns Lumber Co., Boston, Mass.

PHLOX**CLEARING OUT SALE OF HARDY****PHLOX, IN VARIETIES**

Including 2,000 F. G. von Larsburg, 3,000
Miss Lingard. Write for information and
prices. OLD TOWN NURSERIES, South
Natick, Mass.

PIPE AND FITTINGS.

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"Riverton Special."

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PRIVET

Amoor River Privet, 2 to 3 ft., \$2.00 per
100; \$15.00 per 1000. REYNOLDS NUR-
SERY COMPANY, Winston-Salem, N. C.

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ROSES, CANNAS AND SHRUBS.
THE CONARD & JONES COMPANY,
WEST GROVE, PA.

SASH

Metropolitan Material Co., Brooklyn, N. Y.
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STANDARD HOTBED SASH, with cross
bar, 85c. each; lots of 25 and over, 80c.
each. Satisfaction guaranteed or money
refunded. Glass 6 x 8, 8 x 10, 10 x 12 or
10 x 14, \$2.25 per box of 50 sq. ft.
C. N. ROBINSON & BRO., Dept. 29, Balti-
more, Md.

SCALECIDE

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Seeds with a Pedigree.
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Seeds for the Florist.

Peter Henderson & Co., New York City.
Everything for the Garden.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. LAGER
& HURRELL, Summit, N. J.

STRAWBERRY PLANTS

Strawberry Plants, \$2.50 per 1000. Cata-
logue free. BASIL PERRY, Georgetown,
Delaware.

SWEET PEA SEED

Ant. C. Zvolanek, Lompoc, Calif.
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VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co.
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COMET TOMATOES—Fine plants grown
from Roney's special forcing strain in
sterilized soil. Strong 2 1/4 inch plants, \$2.00
per 100; \$22.50 per 1000. Cash please.
J. J. CLAYTON & SON, West Grove, Pa.

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The S. S. Pennock-Meehan Co., 1216 H St.,
N. W.
For page see List of Advertisers.

NEW OFFERS IN THIS ISSUE**AMERICAN BEAUTY ROSES.**

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

BULBS OF DISTINCTIVE QUALITY.

H. F. Michell Seed House, Philadelphia, Pa.
For page see List of Advertisers.

**CHICAGO EASTER FLOWER
DELIVERIES.**

William J. Smyth, Chicago, Ill.
For page see List of Advertisers.

**CUT FLOWERS AND LILIES FOR
EASTER.**

Henry M. Robinson & Co., Boston, Mass.
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CUT FLOWERS FOR EASTER.

Herman Weiss, New York.
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CUT FLOWERS FOR EASTER.

J. A. Budlong, Chicago, Ill.
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CUT FLOWERS FOR EASTER.

Geo. C. Siebrecht, New York.
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CUT FLOWERS FOR EASTER.

Philip F. Kessler, New York.
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CUT FLOWERS FOR EASTER.

Leo Niessen Co., Philadelphia, Pa.
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CUT FLOWERS FOR EASTER.

H. E. Froment, New York.
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CUT FLOWERS FOR EASTER.

B. A. Snyder Co., Boston, Mass.
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**DETROIT EASTER FLOWER
DELIVERIES.**

John Breitmeyer's Sons, Detroit, Mich.
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EASTER FLOWERS BY TELEGRAPH

Randall's Flower Shop, Worcester, Mass.
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EASTER FLOWERS BY TELEGRAPH

Penn the Florist, Boston, Mass.
For page see List of Advertisers.

EASTER FLOWERS BY TELEGRAPH

Thomas F. Galvin, Inc., Boston and New
York.
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EASTER FLOWER DELIVERIES.

Alexander McConnell, New York City.
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GREENHOUSE CONSTRUCTION.

Foley Mfg. Co., Chicago, Ill.
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GREENHOUSE CONSTRUCTION

J. C. Moninger Co., Chicago, Ill.
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GREENHOUSE CONSTRUCTION.

Wm. H. Lutton Co., Jersey City, N. J.
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GREENHOUSE CONSTRUCTION.

Metropolitan Material Co., Brooklyn, N. Y.
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HARDY PERENNIALS.

R. & J. Farquhar & Co., Boston, Mass.
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HARDY PERENNIALS.

Mt. Desert Nurseries, Bar Harbor, Me.
For page see List of Advertisers.

**HARDY PERENNIALS, SHRUBS AND
VINES—ROSES—AQUATIC AND
DECORATIVE PLANTS.**

Henry A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

HORSESHOE BRAND LILY BULBS.

R. M. Ward & Co., New York.
For page see List of Advertisers.

**INSECTICIDE—GREENHOUSE
PAINT AND PUTTY.**

Hammond Paint & Slug Shot Works,
Beacon, N. Y.
For page see List of Advertisers.

**KANSAS CITY EASTER FLOWER
DELIVERIES.**

Samuel Murray, Kansas City, Mo.
For page see List of Advertisers.

**LILIES AND CUT FLOWERS FOR
EASTER.**

Welch Bros. Co., Boston, Mass.
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NEW CHRYSANTHEMUMS.

Charles H. Totty, Madison, N. J.
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NURSERY STOCK.

The Conard & Jones Co., West Grove, Pa.
For page see List of Advertisers.

PLANTS YOU NEED.

Julius Roehrs Co., Rutherford, N. J.
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**PRIZE WINNING ROSES AND
FERNS.**

F. R. Pierson Co., Tarrytown, N. Y.
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ROSES.

M. H. Walsh, Woods Hole, Mass.
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SURPLUS STOCK OF EVERGREENS.

Old Town Nurseries, So. Natick, Mass.
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THE KING OF ROSES.

P. J. Smith, New York City.
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21 HOUSES OF EASTER PLANTS

Thomas Roland, Nahant, Mass.
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**WASHINGTON, D. C., EASTER
FLOWER DELIVERIES.**

Gude Bros. Co., Washington, D. C.
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WHOLESALE FLORIST.

Chicago Flower Growers' Assn., Chicago, Ill.
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WHOLESALE FLORIST.

Zech & Mann, Chicago, Ill.
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WHOLESALE FLORIST.

J. K. Allen, New York.
For page see List of Advertisers.

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Est. 1765

Inc. 1904

Pot Makers for a
Century and a Half

HEWS STRONG RED POROUS POTS

World's Largest
Manufacturers

Standard, Azalea, Bulb, Orchid, Fern Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.

Write for Catalogue
and Discounts

A. H. HEWS & CO., Inc., Cambridge, Mass.

Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.

Flower Market Reports

(Continued from page 397)

where in demand on St. Patrick's Day. Out door narcissi are coming in from Southern Illinois.

There were plenty of flowers to be had last week at practically the buyer's own price. This was particularly true of violets and sweet peas with which the market was badly overcrowded. The latter part of the week found conditions somewhat improved but not to the extent where it would do much good. White carnations sold well for St. Patrick's Day. Outdoor daffodils are to be had at low figures. The greenhouse stock continues good and is in fair demand. Most of the local growers are cut out of freesia and this flower is one of the few scarcities. There are more lilies now to be had than the market can possibly consume. Roses have been selling better.

Visitors' Register

Chicago.—A. C. Reicher, Michigan City, Ind.; Mr. Curier, of Elkhart Floral Co., Elkhart, Ind.

Boston.—Edw. Roehrs, Rutherford, N. J.; Jos. A. Manda, W. Orange, N. J.; John Canning, Ardsley, N. Y.; Jas. Stuart, Mamaroneck, N. Y.

Philadelphia.—S. C. Bolger, Charleston, S. C.; Wm. Rehder, Wilmington, N. C.; J. W. Grandy, Norfolk, Va.; J. N. Wilson and Ira G. Marvin, Jr., Wilkesbarre, Pa.; D. Grillhertz, Alexandria, Va.

Washington, D. C.—Charles L. Baum, Knoxville, Tenn.; Mrs. Mary W. Hand, Waban Rose Conservatory, Natick, Mass.; H. S. Price, S. S. Pennock-Meehan Company, Philadelphia, Pa.; Will Rehder, Wilmington, N. C.; J. W. Grandy, Jr., Norfolk, Va.

Cincinnati.—H. L. Green, representing Expanded Wood Co., Evansville, Ind.; Nilo N. Enritsloef, representing Geo. Wittbold & Co., Chicago, Ill.; Wm. Thomas of Neuman & Thomas, Richmond, Ind.; Chas. Dietrich, Maysville, Ky.; Williams Rodgers, Dayton, Ohio.

Pittsburgh.—Joseph Luinenvan, representing Kallen & Luinenvan, Boskoop, Holland; H. G. Mathot, Boskoop, Holland; Oscar Braumaeller, Cleveland, Ohio; George G. Singer, Chicago, Ill.; L. G. P. Alsbersberg, Driehuizen Brothers, Lisse, Holland; A. G. Kelols, Castorland, New York; Van Acker Brothers, Safelaere, Belgium.

Chicago.—Alexander Klokner, Milwaukee, Wis.; A. Dettman, Milwaukee, Wis.; F. A. Sylvester, of J. M. Fox & Son, Milwaukee, Wis.; E. Currier, of the Elkhart Floral Co., Elkhart, Ind.; F. H. Henry, of Henry & Lee, New York, N. Y.; Robert C. Kerr, Houston, Texas; J. J. Hess, Omaha, Neb.; Daniel MacRorie, San Francisco, Cal.; Fred Stuppy, St. Joseph, Mo.; A. J. Rossi, San Francisco, Cal.

New York.—Walter Gott, St. Albans, Eng.; W. E. Cook, Cleveland; F. X. Stuppy, St. Joseph, Mo.; Daniel MacRorie, San Francisco, Cal.; J. J. Hess, Omaha, Neb.; Frank McCabe, Chicago; P. E. Hudson,

Wayland, O.; Wm. Gammage, London, Ont.; R. C. Kerr, Houston, Texas; Wm. Graham and Paul R. Klingsporn, Chicago; W. J. Keimel, Elmhurst, Ill.; R. Salm, Union Grove, Wis.; E. C. Amling, Maywood, Ill.; D. C. Horgan, Macon, Ga.; August Jurgens, Chicago; Philip Breitmeyer, Detroit, Mich.; J. F. Ammann, Edwardsville, Ill.; Alois Frey, Crown Point, Ind.; F. C. W. Brown, Cleveland; C. L. Baum, Knoxville, Tenn.; Geo. W. Hess and W. F. Gude, Washington, D. C.; John H. Dunlop, Toronto, Ont.; George Asmus, Chicago; R. E. Jones, Richmond, Ind.; F. Danzer, Detroit; C. H. Vick and Geo. B. Hart, Rochester, N. Y.; C. E. Russell, Cleveland, O.; C. Lindreth, Pittsburgh; M. E. Carter, Kansas City; B. Levatt, Lisse, Holland; F. H. Miller and A. Watt, Toronto; E. A. Coe and J. J. Salmon, Akron, O.; W. R. Bohannon, Chicago; Prof. C. S. Sargent, C. H. Breck, P. Welch, W. R. Nicholson, S. J. Goddard, W. H. Elliott and many others from Boston; E. C. Brucker, S. A. Anderson and others from Buffalo; R. Vincent, Jr., Whitmarsh, Md.; F. J. Drake, Pittsfield, Mass., and plenty more from all parts of New York State, New Jersey, Connecticut and Pennsylvania; Adolphus Gude and E. Niedomanski and wife, Washington, D. C.; S. B. McClements, C. Lindroth and H. W. Breitenstein, Pittsburgh; J. B. Shea, Boston; A. M. Davenport, Watertown, Mass.

St. Louis.—A. S. Thurston and F. J. Olsen, Ames, Ia.; A. F. J. Baur, Indianapolis, Ind.; T. A. Dorner, Lafayette, Ind.; Mr. and Mrs. J. S. Wilson, Des Moines, Ia.; M. W. Miller, Geo. Mohr, B. Kirckhof, Jos. Marks, H. C. Tilton, Carl Vaughan, H. E. Hunniston, L. V. Mahaney, R. E. Kurovski, C. P. Guion, A. F. Longren, Ed. Goldenstein, P. M. McKee, H. Nichols, James Norton, John Schrieber, Ed. Galavan, M. C. Wright, H. G. Miller, Robert Newcomb, F. D. Vosburgh, H. A. Levenson, B. F. Dupre, Miss J. Freedom, T. E. Waters, J. A. Ebberts, Arthur Dietack, C. J. Michaelson, C. W. Harris, W. M. Adams, T. C. Nielsen, all of Chicago, Ill.; John J. Stuppy, St. Joseph, Mo.; W. J. Smart, Morris H. Levine, Robert Spero, Basket Novelty Co., New York, N. Y.; W. J. Hembreiker, Springfield, Ill.; C. E. Gullett, A. Nielsen, Lincoln, Ill.; M. E. Jones, Advance Co., J. A. Evans, Richmond, Ind.; M. E. Carter, J. A. Brygan, Kansas City, Mo.; A. W. Brigrance, T. J. Wolfe, Waco, Tex.; E. S. Lyon, G. T. Brown, Kent, O.; S. H. Young, Casey, Ill.; A. M. Liston, Terre Haute, Ind.; Mr. and Mrs. C. B. Wilcox, Council Bluffs, Ia.; Martin Reukauf, Philadelphia, Pa.; E. Mionx, Carlyle, Ill.; E. H. Klein, T. R. Smith, D. L. Proctor, Edwardsville, Ill.; F. P. Grimm, Highlands, Ill.; B. R. Hellenenthal, Mary M. Hellenenthal, Columbus, O.; I. L. Klam, Belleville, Ill.; K. A. Hellenenthal, Boone, Ia.; Mrs. B. F. Kramer, Jackson, Tenn.; Geo. Marsen, Alton, Ill.; J. W. Furrold, Guthrie, Okla.; J. E. McAdam, Fort Worth, Texas; W. F. Greene, Dallas, Tex.; B. Lassen, Mrs. M. B. Lassen, Racine, Wis.; Mrs. Hellerfeld, A. Eberfeld, Kansas City, Mo.; L. H. Archias, Grace Duncan, Mrs. W. L. Walden, Miss Fannie Holly, Sedalia, Mo.; F. C. Myer, Elmhurst, Ill.; J. W. Ross, Centraalia, Ill.; G. M. Johnston, V. Rydh, Beatrice, Neb.; Mr. and Mrs. J. H. Joy, Nashville, Tenn.; Mr. and Mrs. Claude Wisely, Murphysboro, Ill.; C. A. Knapp, Nevada, Mo.; Wm. C. Aftens, O. Fallon, Ill.; E. A. Moore, Harvard, Ill.; Mrs. Ella Grant Wilson, Cleveland, O.; Edgar Easterly, Nokomis, Ill.; Louis Miller, Burlington, Ia.; Fred E. Holland, Highland, Ill.; C. Leithauser, Lincoln, Neb.

STANDARD FLOWER POTS

If your greenhouses are within 500 miles of the Capitol, write us; we can save you money

W. H. ERNEST

29th & M Sts., Washington, D. C.

WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 147 Summer St., Boston.

HELP WANTED

WANTED on gentleman's country place, twenty miles from New York City, a thoroughly skilled and experienced greenhouse man to take entire charge of rather large greenhouses where a great variety of plants and flowers are grown. He would be responsible for the other men working on greenhouses and for the flowers outside, but he would have nothing to do with the remainder of grounds, &c. The owner takes a personal interest and is willing to pay a liberal salary to a man who will produce satisfactory results. State age, nationality, full experience, references, size family and salary expected. BOX 85, Mamaroneck, New York.

WORKING FOREMAN OR MANAGER.

Wanted: An up-to-date grower, with a good knowledge of all sorts of plants; a good business man able to attend to customers and manage help to advantage. Apply with full particulars, stating salary expected to start to "ADVANCEMENT," care HORTICULTURE.

WANTED.

Bright young man willing to take an interest in his work where he would be given a chance to learn all of the different branches of horticulture, with advancement. Apply with particulars to "OPPORTUNITY," care HORTICULTURE.

SITUATIONS WANTED

SITUATION WANTED—I can recommend a first-class man as head gardener and farmer for a gentleman's country place. Will be disengaged April 1st. Married, one child 8 years old. In present position 10 years. First-class references. Apply JOHN MARSHALL, Fruit Hill Greenhouses, Providence, R. I.

WANTED—A permanent position as a superintendent for forestry or landscape planting. Have had college training and experience. Address "Z," care HORTICULTURE.

FOR SALE

FOR SALE—Glass, 6x8 to 10x12, single thick, \$1.85, double thick, \$2.85 per box. Metropolitan Material Co., 1297-1325 Flushing Ave., Brooklyn, N. Y.

FOR SALE—Two greenhouses, one 190 x 28, one 185 x 31; and dwelling house, six rooms with bath, hot and cold water, steam heat, half-acre of land. Address JOSEPH FARRELL, 197 Broadway, Somerville, Mass. Tel., Som. 1517-W.

FOR SALE—TWO (2) GREENHOUSES. One of an area approximating 14,000 sq. ft. of glass, brick stack, heater and piping. The other of an area approximating 1,000 sq. ft. of glass, headhouse 30' x 40', heater and piping. Write or apply to Superintendent of Buildings and Grounds, CORNELL UNIVERSITY, Ithaca, N. Y.

Sold by Seed Dealers and Used in New England 35 Years



"HAMMOND'S GRAPE DUST"

Used effectively to kill Powdery

Mildew on Roses and other Plants

USED BY THE FLORISTS FOR OVER 25 SUCCESSIVE YEARS

Sold by the Seed Dealers.
For pamphlet on Bugs and Blights address

HAMMOND'S PAINT AND SLUG SHOT WORKS

BEACON, N. Y.

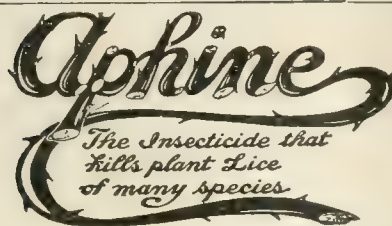


Hammond Insecticides used by Florists and Gardeners for generations, and before this our paint was used on Hot Houses because it did not wash off. Twemlow's Putty is unexcelled.

Send for Pamphlets or information regarding your needs.

HAMMOND'S PAINT AND SLUG SHOT WORKS, Beacon, N. Y., U.S.A.

OUR PRODUCT SOLD BY
SEED DEALERS



The Recognized Standard Insecticide.

A spray remedy for green, black, white fly, thrips and soft scale.

Quart, \$1.00; Gallon, \$4.50.

NIKOTIANA

A 12% nicotine solution properly diluted for fumigating or vaporizing.

Quart, \$1.50; Gallon, \$4.50.

Until further notice shipments on our products FUNGINE, VERMINE and SOA-LINE will be subject to conditions of the chemical market.

Prompt shipments can be guaranteed on APHINE and NIKOTIANA.

Aphine Manufacturing Co.
MADISON, N. J.



Save your plants and trees. Just the thing for greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrips, Red Spider, Black and Green Fly, Mites, Ants, etc., without injury to plants and without odor. Used according to direction, our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pets. Excellent as a wash for dogs and other animals. Relieves mange. Dilute with water 30 to 50 parts.

1/2 Pint, 25c; Pint, 40c; Quart, 75c;
1/2 Gallon, \$1.25; Gallon, \$2; 5 Gallon Can, \$9; 10 Gallon Can, \$17.50.
Directions on package.

LEMON OIL COMPANY

Dept. S. 420 W. Lexington St., Baltimore, Md.

USE WIZARD BRAND

CONCENTRATED PULVERIZED MANURE

Pulverized or Shredded
Cattle Manure
Pulverized
Sheep Manure

The Florists' standard of uniform high quality for over ten years. Specify: **WIZARD BRAND** in your Supply House order, or write us direct for prices and freight rates.

THE PULVERIZED MANURE CO.
31 Union Stock Yard, Chicago



IMP. SOAP SPRAY

Quarts, 55c. Gallons, \$1.65

Fives, \$6.50

Try with 24 parts water. Often effective weaker.

LOOK FOR THE IVY LEAF TRADE MARK.

Ask your dealer or write

EASTERN CHEMICAL CO., BOSTON

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NIKOTEEN

For Spraying

APHIS PUNK

For Fumigating

Ask Your Dealer For It.

NICOTINE MFG. CO.
ST. LOUIS

YOUR TREES NEED "SCALECIDE"

Because it kills every kind of scale and destroys the aphid eggs before they hatch.

Because it wipes out the Pearl Psylla, Bud Moth and Case-Bearer. Also stops the growth of Canker and Collar Rot.

Because it is incorporated to tree growth insuring better fruit and bigger crops.

Because it saves money, time and trouble. You cannot afford to do without it.

Sold on a "money-back" proposition

Write for Circular No. 13.

B. G. PRATT CO.

Dept. 13

50 Church Street New York

Obituary

Mrs. James Blair.

Mrs. Blair, wife of James Blair, gardener for Mr. Ogden Mills, Staatsburg, N. Y., died on Monday, March 19.

Andrew B. Holmes.

Andrew B. Holmes, florist, of Brookings, S. D., passed away Feb. 28, at the age of 69 years. He is survived by five children.

H. L. Gowan.

H. L. Gowan, for many years a retail florist at 136 Chestnut street, Lynn, Mass., passed away March 10. He was very well known in the wholesale markets in Boston.

Chris. Butler.

Chris. Butler, brother of the late Henry Butler, florist, of New York, who was well known in the New York City trade, died on March 15 in Astoria, L. I. Mr. Butler formerly conducted greenhouses in Bayside.

Wm. T. M. Lehr.

Wm. T. M. Lehr, one of the oldest florists in Baltimore, died at the home of his daughter, 19 E. 21st street, March 7th. Mr. Lehr was born in Germany 92 years ago, and came to America in 1850. He worked on private estates for a great many years before entering the florist business for himself. He is survived by two sons and three daughters.

DAHLIA POINTERS.

Extract from a talk by E. L. Kunzman before the Kentucky Society of Florists.

Should you wish to reduce the height of growth pinch out one-half or about 6 in., when the plant has reached a height of 12 in. or so, and never have more than one or two sprouts from bulb. This pinching will reduce height of growth about one-third, but will retard blooming period 10 to 14 days.

To support the bushes use a strong stake, or several to each plant where you have a few plants; but if you grow a number, set a strong stake about every ten plants and run a single wire (No. 14 is strong enough) the length of the row, fasten it to the stakes at about a height of 20 in. from ground level, and fasten your plants to this wire where necessary with binder or other loose twine. Should you need it, run a second wire at about 40 in. from ground level. However, it will be found that one wire, even without tying, stiffens the bushes wonderfully.

Some practice disbudding, and while it might increase the size of bloom or length of stem somewhat, it is not a paying practice for the florist, as the Dahlia is really more artistic when cut with the buds. Blooms should be cut in the cool part of the day, morning or evening; should it be necessary to cut in the heat of day, immerse the stems immediately in two or three inches of hot water and let remain till the water is cool; place part away in cool water until used. Nearly all varieties will yield to this treatment.

The Dahlia requires good cultivation, sunshine, not too much water, and support to do its best.

IMPROVEMENTS



ESTABLISHMENT OF WM. ESPY & SONS, BROOKVILLE, PA.

Anyone will admit that the greenhouses of today are a big improvement over those of twenty years ago. We make improvements constantly, but never any until we have tested them thoroughly. Read what our customers say:

BROOKVILLE, PA., February 21, 1917.

John C. Moninger Co., New York, N. Y.

Gentlemen: We are pleased to inform you that we have found Moninger's houses to be satisfactory in every way. We have built five houses and not one stick of any but your material.

Further, you people are progressive enough to make the small improvements so essential to the florists, and while the first lot of material was excellent, every additional lot looks better.

Wishing you a very prosperous and successful future, we are

Yours very truly,

(Signed) C. W. ESPY & SONS.

JOHN C. MONINGER CO.

CHICAGO
922 Blackhawk Street

NEW YORK
812 Marbridge Bldg.

CINCINNATI
2314 Union Central Bldg.

EVERYTHING FOR THE GREENHOUSE.



NON-KINK WOVEN HOSE

In any length (one piece) with couplings, 15c. per foot. Unequaled at the price.



Hose Valve, 70c.

All brass except the hand wheel. Has a removable leather disk which is easily replaced to keep water tight. Stuffing box prevents leaks at stem.

METROPOLITAN MATERIAL CO.

1297-1325 Flushing Ave., Brooklyn, N. Y.

Dreer's Peerless Glazing Points For Greenhouses

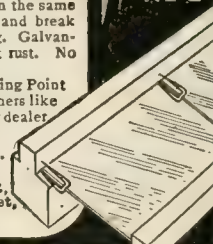
Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts. The Peerless Glazing Point is patented. No others like it. Order from your dealer, or direct from us.

1000, 75c. postpaid.

Samples free.

HENRY A. DREER,
714 Chestnut Street,
Philadelphia.

FULL
SIZE
No. 2



GREENHOUSES BUILDING OR CON-TEMPLATED.

Lowell, Mass.—Lowell Cemetery, rebuilding.

North Brewer, Me.—Roy Crook, one house, completed.

Magnolia, Mass.—J. Harrington Walker, one house.

Rutland, Vt.—Nellie Hayes, 118 Library Ave., one house.

Byfield, Mass.—Eugene Bradley, Downfall road, one house.

Newark, N. J.—August C. Begerow, 946 Broad St., alterations.

Washington, D. C.—The Dunbar Company, carnation house 60x250.

Cameron, W. Va.—Cameron Greenhouse Co., vegetable house, 30 x 200.

PATENTS GRANTED.

1,218,115. Shrub and Plant Holder. Louis Frederick Philipps, Columbus, Nebr.

1,218,228. Plant Irrigating Device. Charles F. Tillman, Chicago, Ill.

1,218,326. Plant Protector and Irrigator. Thomas Joseph Sheridan, Charleston, S. C.

1,218,333. Art of Tree Surgery. George E. Stone, Amherst, Mass.

The Florists Hall Association rate of insurance from Nov. 1st, 1916 to Nov. 1st, 1917 will be twenty cents per hundred square feet of single thick glass and eight cents per hundred square feet of double thick glass. For particulars address JOHN G. ESLER, Sec., Saddle River, N. J.

When writing to advertisers kindly mention HORTICULTURE.

FOLEY GREENHOUSES

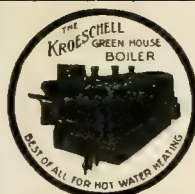
THE reason why *Foley Greenhouses* are so popular is because they so successfully stand the test which efficiency exacts in the way of service and construction.

We design and manufacture the house which will best suit your needs. Put your building problems up to us. We will gladly give your inquiries prompt and careful attention.

The Foley Greenhouse Mfg. Co.

Designers — Builders — Heating Engineers

3275 West 31st Street, Chicago, Ill.



If you need a boiler in a hurry telephone or telegraph at our expense

KROESCHELL BOILERS

SEND FOR CATALOG

Kroeschell Bros. Co., 466 W. Erie St., Chicago



MASTICA

For Greenhouse
Glazing

USE IT NOW

F. O. PIERCE CO.

12 W. BROADWAY
NEW YORK

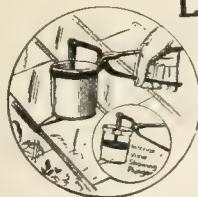


Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

THE ONLY PERFECT

LIQUID PUTTY MACHINE

WILL LAST A LIFETIME
\$1.25 each



Adjustable—can and frame separate—easily cleaned. Frame all one piece, of malleable iron. More practical and more easily operated than any other.

SEAL TIGHT LIQUID PUTTY

\$1.35 per gallon

In 10 gallon lots. \$1.40 per single gallon.

METROPOLITAN MATERIAL CO.

1297-1325 Flushing Ave., BROOKLYN, N. Y.

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and Copyrights

Difficult and rejected cases specially solicited. No misleading inducements made to secure business. Over 30 years' active practice. Experienced, personal, conscientious service. Write for terms. Address,

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

GLASS CLOTH

A transparent waterproof fabric, guaranteed to generate about the same warmth and light as glazed sash, or money back. For all forcing purposes. Sample 3 x 6 feet. 50c. prepaid.

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TURNER BROS., Bladen, Nebraska



Evans 20th Century Arm

Most up-to-date arm on the market. Proof that it is better than any other is that others tried to imitate it. Write for our 1916 catalog just out.

JOHN A. EVANS CO.
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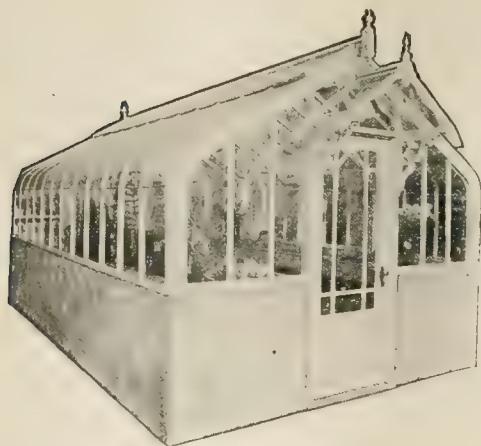
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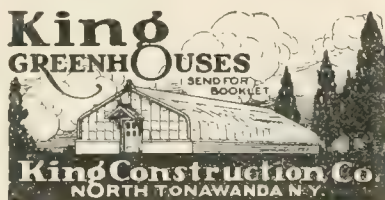
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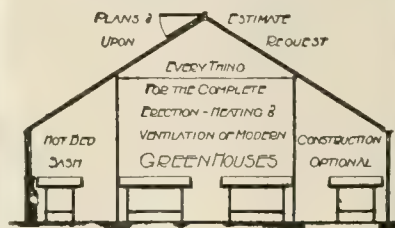


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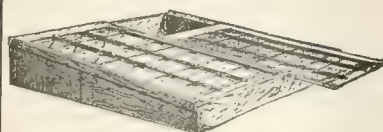


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Who can tell whether the three problems are solved right? Surely none are more competent to judge than the growers. Letters of endorsement from well known gardeners in various parts of the country are on file for your inspection. LUTTON construction always makes a strong appeal to owners as well, as is evidenced by the large number of prominent men who own LUTTON Greenhouses,—such as Mr. C. A. Coffin, Pres. General Electric Co.; Mr. E. M. Herr, Pres. Westinghouse Elec. & Mfg. Co.; Mr. F. S. Wheeler, Pres. American Can Co.; Mr. Galen L. Stone of Boston. Mr. E. L. Ford of Detroit, etc.

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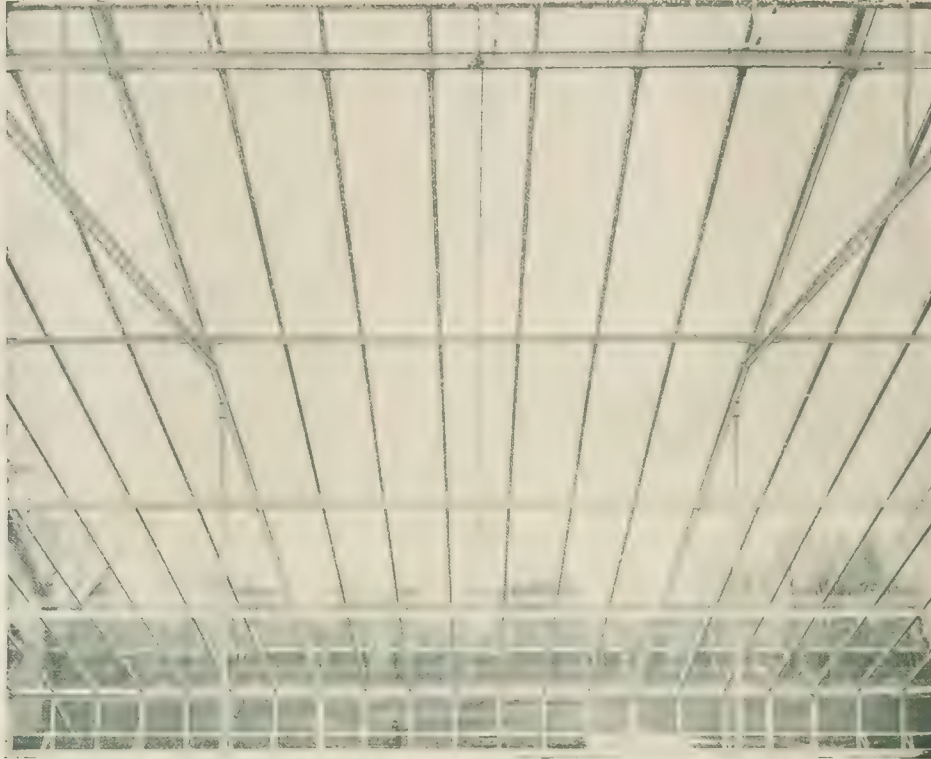
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WITH the old spacing of 8 feet 4 inches between rafters, the Eave kept right up in line, true as a die.

But when it came to making that spacing 12 feet $1\frac{1}{4}$ inches and using 20-inch glass instead of 16, there was an extra strain thrown on the angle iron plate, which had to be taken care of, or there would be a sure enough centre sag.

Such a sag would look bad, cause loosening of the glass, and make the sash hit and stick.

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Vol. XXV
No. 13
MAR. 31
1917

HORTICULTURE



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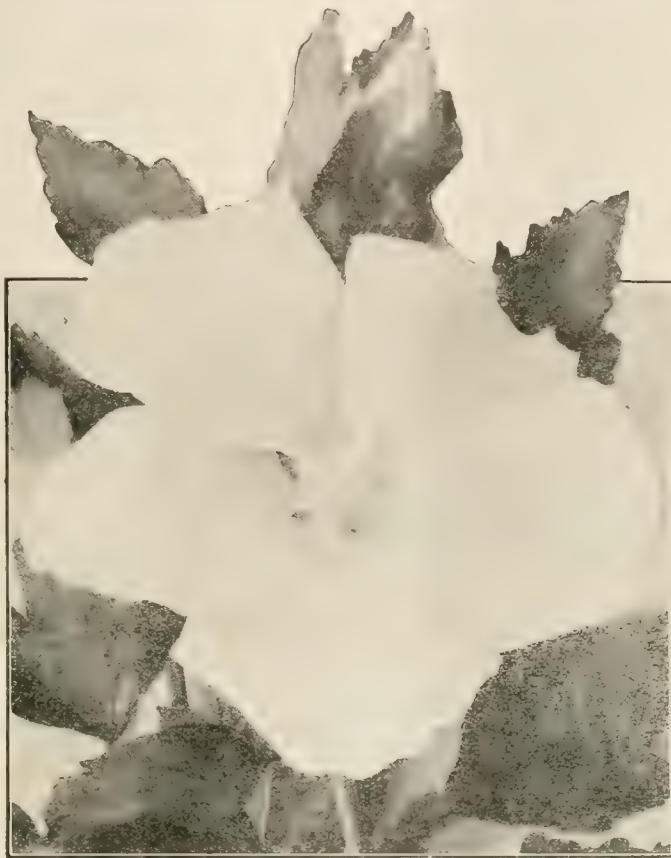
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NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toil, we ought to blame the culture, not the soil."—Pope.

Ferns

From now on sow successive batches of spores, as it takes from 10 to 12 months from the time of sowing to get useful sized plants. All the soil used for sowing spores should be sterilized. Use pans and fill half full of good drainage. Then fill to within half an inch of the rim with a sifted mixture of soil, leaf mold, peat and sand in equal proportions. Give the pans a good watering and allow them sufficient time to drain, then sow the spores thinly over the surface and plunge up to the rim in a propagating frame with a temperature of at least 65 degrees at night and protect from the sun. Where it is intended to grow large specimens they should be kept moving as fast as possible now. Most of this class of ferns can be materially assisted by the careful use of liquid manure, but the pots should be well filled with roots before applying any stimulants. All kinds of ferns will need some shade from this out, so they will retain their color.

Gloxinias

Tubers that have been kept back but are now starting up naturally should be potted, using a mixture of two parts leaf mold and one part fibrous loam and some sand. Plants that are coming into bloom should have a temperature of 60 degrees at night with a rise of 10 degrees during the day, but when the flowers are well opened they can be kept 10 degrees cooler. This will make the foliage firmer and the flowers will have greater durability. They should be given a light shade and so situated that they will get a requisite amount of air without draughts. The seedlings started early in the year will now be of good size for 3-inch pots. These young plants will flower by the late summer. Treat them throughout the season with shade but give plenty of light and moisture. Be very careful not to wet the foliage any more than is absolutely necessary as they get scorched.

Hardy Roses

The weather this year will prevent very early planting but we should get them in as early as possible. Hybrid Perpetuals should be replanted or replaced with young two-year-old stock every eight or ten years. It is better to plant a new bed every five or six years as hybrids give very poor results the first season after being planted. Then you can have the old beds to cut from. Trench the ground thoroughly, working in a liberal application of barnyard manure. I think it is wise to give them plenty of room between the rows—say three feet or more and from 15 to 18 inches in the rows. This enables you to work through them during the summer and gives room for winter protection. Now is the time to prune roses. Frequent hoeing among the plants to keep the surface loose is especially beneficial in and during dry spells. On old beds give additional stimulant such as fertilizer, pure bone meal or liquid manure. This should be applied about the end of April and on through May.

Lily of the Valley in Cold Storage

Pips not used up to this time, or only temporarily stored in frames for the winter must go into cold storage proper. Repacking for cold storage is not absolutely necessary in the case of valley wintered over until now in cold frames but to be on the safe side with that which is to be held back until late in the season, the bundles if in any way dry, should be dipped up to the crowns in water, and then be stood upright and close together in boxes, and instead of sand or soil, dampened moss should be used in repacking. After the middle of March frames cease to be a safe place for lily of the valley. The stock to be forced soon will be all right in from 26 to 28 degrees, while that to be held longer keeps best in from 23 to 25 degrees. Of more importance than degree is steadiness and while the temperature should never be more than 28 degrees or lower than 23 degrees, the mark most easily maintained between these two extreme points should be held to right along with unwavering regularity so the pips will retain their strength.

Plants for Vases, Etc.

The florist who does a retail plant business adjacent to town or near some leading cemetery, will have many vases to fill. Many growers have only a vague idea as to the amount of stock required. Now is a good time to sum up. If plants are required for a shady situation the following selection is good: Fuchsias, begonias, *Cyperus alternifolius*, *Ficus elastica*, *aspidistras*, *Farfugium grande*, *selaginellas* and ferns. For centers use *Phoenix rupicola*, *Latania borbonica*, *Areca lutescens* and *cordylines*. For trailers use German ivy, *tradescantias*, *Kenilworth ivy*, and *Asparagus Sprengeri*. Where they will be exposed to the sun the following are very satisfactory: *Geraniums*, *coleus*, *ageratum*, *acalypha*, *petunias*, and dwarf *nasturtiums*. For the center *Dracaena indivisa*, *Chamaerops humilis* or any of the *Phoenix* family. For trailers, *Vinca major variegata*, *Solanum jasminoides*, *Abutilon vexillarium*, *nasturtiums*, *verbenas*, German ivy, ivy-leaved *geraniums* and many others. As you get room give all these plants a good place so they will grow.

Reminders

There is yet ample time to root an abundance of *coleus*, *alternanthera*, *achyranthes* and similar foliage plants. The early batches will now give plenty of nice tops.

Do not be in too great a rush to remove winter protection from hardy plants. Better take away a little of the coarser material only. We may yet have some really cold, biting winds.

A sowing of *Cobaea scandens*, *Ipomoea grandiflora alba* or moonflower, Kudzu vine, *maurandia* and *Kenilworth ivy* or *Linaria cymbalaria*, should now be made. The two last named are useful for hanging baskets and vases.

Next Week:—Care of Gardenias; *Nephrolepis*; *Odontoglossums*; *Poinsettias*; *Ramblers* for Easter, 1918; Reminders.

HORTICULTURE

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MARCH 31, 1917

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Butt of a million newspaper jokes, pitied and scoffed at by turns for these many years by his supercilious city dwelling friend, here comes the "commuter" as the man to be envied now. Doff your hats to him, all, as he proudly struts up the street to the railroad station with his new garden tools and bundle of seeds. He's got you on the

run for once, together with the H. C. L. The suburbanite is king.

Hard
lines

We undoubtedly have plenty to complain about and to endure under protest, but just consider what our brethren in Great Britain are "up against" in the recent Government Orders and Regulations, which prohibit the distribution of business catalogues either by hand or post except to such individuals as may actually make a direct request for a copy. Another bit of evidence that General Sherman knew what he was talking about when he gave his famous definition of war.

A
happy termination

The great flower show drive of March, 1917, has been safely carried through and all hands have come out without even a scratch. For all of this we should feel duly thankful and rejoice. The result in St. Louis is especially significant and gratifying for it seems to remove all question as to the success of the National Flower Show in that city next year, assuring one more in the unbroken line of triumphs since the National Flower Shows were inaugurated.

The
time to
advertise

A few days more and the great Easter hustle will be on for everyone in any way connected with the flower business. There will be trade enough for all—as much as can be handled to advantage and profit, probably. But what about the days to follow? We often think, and have even dared to print it, that the money some florists put into Easter advertising could be spent to better purpose in the period directly following Easter. Who will have the courage to try it?

About
pictures

We have on hand a number of other handsome photographs taken in the large flower shows which we shall publish in later issues of HORTICULTURE. Restrictions as to the use of flash lights, outrageous prices by "official" photographers and other conditions beyond control, often interfere with the securing of pictures that adequately show up the strongest and most attractive features of these big exhibitions. At best, the engravings can convey but an indifferent impression of the objects in a scene where color is the main feature. Until the art of color photography has advanced far beyond its present possibilities the only way to know what a flower show looks like is to go and see it.

S. A. F.
reconstruction

The course of events shows plainly that the present executive board of the Society of American Florists, like its immediate predecessor, has a large measure of revolutionary daring in its make-up and very little regard for traditions. The time-honored August convention custom is due to suffer a blow next year which may be its finish. The shifting of the office of secretary from an elective to an appointive position will, we presume, have to run the gauntlet yet of the Convention at New York next August but the all-pervading propensity for turning things topsy-turvy which seems to be the ruling passion over all the earth in these ruthless times has probably not yet got through with the S. A. F., so watch out for periscopes from now on.

After Adjournment

In our last issue the line "St. Louis Show Notes" became "St. Louis Shoe Notes" after it left our control. We only wish we knew how to "make the punishment fit the crime" but that is one of the places where editors and publishers are helpless.

A New Jersey horticulturist, after long experiments in hybridization, has produced a purple carnation and offers cuttings for \$100 each. Some day will science produce a purple cow?—Boston Globe.

That's nothing, New Jersey already has Charlie Totty and Woodrow Wilson, not to mention orchids and hens on which she is invulnerable, and we came near forgetting Barnegat.

We shall be greatly interested in the outcome of that proposed new retail florists' organization in Toronto. If they succeeded in finding a way to confine the public sale of flowers to the "exclusive retail stores" and educate the public so as to get the "cut-rate dealers'" goat, then the millennium must be near at hand.

Estimating that the expenditure for flowers at Jewish funerals in New York amounts to \$163,500 a year, men prominent in Jewish charities recommend that the practice be modified or abandoned and the money spent "to assist the living." But what of the florists who would lose the business? Who'd assist them?

—Worcester (Mass.) Post.

Right you are. The florist evidently has a sane friend in the Worcester Post. If some people had their way the human being would be simply mouth and stomach like some of the strange things we sometimes pull up out of the sea when we go fishing.

Just as modestly as the first violet, and without the least notice, the spring show of the Pennsylvania Horticultural Society is upon the city. It opened in Horticultural Hall, Broad street, below Locust, and will have its last day for the public today. All the spring flowers from the hothouses are represented, and all the usual Main Line greenhouses are represented with the standby friends from all about Philadelphia.

—Phila. Record, Mar. 27.

The shows of the Penn. Horticultural Society are always noteworthy, but the day has gone by when this alone will awaken needed public interest in a flower show. This venerable organization will have to follow suit and adopt modern ways if its wants to stay on the map.

EXCLUSION OF CURRANT AND GOOSEBERRY PLANT IMPORTATION.

The secretary of agriculture deems it necessary, in order to effectively prevent the introduction into the United States of the white pine blister rust (*Peridermium strobi* Kleb.), to extend the provisions of notice of Quarantine No. 7, issued May 21, 1913, to forbid the importation of all currant and gooseberry plants from Europe and Asia.

In compliance with Section 7 of the Plant Quarantine Act of August 20, 1912, (37 Stat. 315), a public hearing will be held at the Department of Agriculture, Washington, D. C., Room 410 Bieber Building, at ten o'clock A. M., on April 10, 1917, in order that all persons interested in the importation of currant and gooseberry plants from Europe and Asia may be heard either in person or by attorney.

SOCIETY OF AMERICAN FLORISTS

Meeting of Executive Board

The mid-Lent meeting of the executive board of this Society was held at the Hotel Biltmore, New York, on Friday and Saturday, March 16 and 17. The following officers and directors were present:

R. C. Kerr, Houston, Texas, president; A. L. Miller, Jamaica, N. Y., vice-president; John Young, New York, secretary; J. J. Hess, Omaha, Neb., treasurer; Wm. R. Nicholson, Framingham, Mass.; Wm. J. Keimel, Elmhurst, Ill.; William F. Gude, Washington, D. C.; Charles L. Baum, Knoxville, Tenn.; Frank X. Stuppy, St. Joseph, Mo.; George W. Hess, Washington, D. C.; George Asmus, Chicago, Ill.; S. S. Pennock, Philadelphia, Pa.; J. F. Ammann, Edwardsville, Ill.; George E. M. Stumpp, New York; A. Farenwald, Roslyn, Pa.; Daniel MacRorie, San Francisco, Cal.; Paul R. Klingsporn, Chicago, Ill.

Ex-President Patrick Welch, Boston, Mass., was present on the invitation of President Kerr. William H. Amling, director through his office as president of the Chicago Florists' Club, through illness, was unable to be present and the Club's credentials delegating Paul R. Klingsporn as a substitute director were, on motion, accepted. Credentials from the various affiliated bodies covering the directors appointed by them were presented and, on motion, accepted, and the directors duly seated. President Kerr announced that he had exercised the privilege of inviting the members of the National Flower Show Committee to sit at the meetings of the Board.

Secretary Young reported that O. J. Olson, St. Paul, Minn., had agreed to act as chairman of the committee on "Mother's Day." He also read a letter from E. J. Fancourt, a member of the committee, reporting an interview recently had with Miss Jarvis in Philadelphia, and she had arranged to consider the matter of the best assistance the committee could render to advance the Mother's Day movement. Mr. Fancourt expressed the opinion that if a proper campaign was started, at least \$5,000 could be raised for the work, and suggested that the Society might be willing to advance the sum of \$1,000 to start such a campaign. Some discussion ensued, which very generally endorsed the idea of supporting Miss Jarvis in her work, and finally the Board directed that an advance of \$1,000 be made to the committee, or as much thereof as might be necessary.

The project of the establishment of a National Credit and Collection Bureau was discussed at some length and, in order that the committee in charge of the project might have something definite upon which to work, the president was directed to appoint a committee of three to draft suggestions in the matter, to be endorsed by the Board, if found acceptable. President Kerr appointed the following as such committee: S. S. Pennock, W. J. Keimel and G. E. M. Stumpp, with the latter as chairman. There was no report from the Committee on Develop-

ment of American Products. The Committee on School Gardens reported progress.

The report of the committee on Tariff and Legislation was presented by James McHutchison of the committee, who was introduced by Mr. Gude, the chairman, in an address in which he appealed for prompt action by the Board on the recommendations embodied in the report. (This report appears elsewhere in this paper.)

The following resolutions were then offered by Mr. Gude:

WHEREAS, It has come to our notice that an effort is to be made to introduce legislation into Congress, seeking to prohibit at some future time the importation of plants, bulbs, plant products and nursery stock of all kinds from every source; and

WHEREAS, The Executive Committee of the Society of American Florists' and Ornamental Horticulturists consider such measures not only unnecessary but injurious to the welfare of its members and of the whole horticultural trade of the United States; therefore

BE IT RESOLVED, That the Chairman of the Legislative Committee of the S. A. F. & O. H. be empowered, and he is hereby empowered, to oppose the proposed legislation, to act according to his judgment in the interests of our organization at the forthcoming conference, to get what assistance he can from any of its members, and to share with the Nurserymen's Legislative Committee the expense of employing a trained man to help protect our joint interests.

The foregoing resolutions were, after a hard discussion, adopted without change.

Secretary Young presented correspondence regarding movements in Ohio and Maine requiring the licensing of firemen employed in greenhouse establishments. Mr. Gude criticised such requirements as absolutely nonsensical and believed they should be opposed by the Society. Maine was following the precedent set by Ohio, and a bill was before a committee of its legislature seeking the licensing of firemen in charge of low pressure heating plants. He offered the following resolution, which was passed:

RESOLVED, That the Society of American Florists and Ornamental Horticulturists absolutely oppose the legislation proposed in the State of Maine compelling the employment of a licensed fireman for the firing of greenhouse boilers carrying less than ten pounds pressure, as being injurious to the welfare of the horticultural trade; and that this Society deprecates the laws already passed in Ohio or other states, as highly detrimental to the horticultural interests affected by them.

Mr. Gude also offered the following resolution:

WHEREAS, Several of the States of the United States have enacted statutes relative to the inspection of stock, which renders it practically impossible to send commercial shipments into such states; it is therefore

RESOLVED, That the Society of American Florists and Ornamental Horticulturists through its Tariff and Legislative Committee use its power and influence to secure the enactment of uniform inspection laws throughout the United States.

This resolution was also carried.

The report of the committee on Trade Directory which, at the Houston

Convention, was referred to the Executive Board for action, was taken up for discussion, and the Board decided that the matter should be deferred until after some system had been established by the proposed Bureau of National Credits and Collections.

Secretary Young presented his financial report for the year 1916. The report showed that \$7,794.63 had been received during the year, and the accompanying report of the auditors showed that this money had all been properly accounted for. It was seen that 293 new annual members had been secured and 41 life members. A financial statement for 1917, to March 10th, showed receipts of \$2,714.75; the addition of 59 new annual members and 32 life members. The secretary also presented the report of the auditors on the National Flower Show accounts, covering receipts, as shown by the secretary's books, amounting to \$62,301. The secretary stated that the Society had more members in good standing than it ever had, as could be seen by the records, which spoke very well for the conventions held in the west and south.

The secretary then made a report on the arrangements made for the convention to be held in New York next August. The main hall of the Grand Central Palace had been secured for the trade exhibition, at the low rental of \$500, and the meeting hall for \$100; a total of \$600. As a comparison, he instanced the cost of similar accommodation at Minneapolis, which was \$1,200. Orders for space in the trade exhibition already booked approximated \$3,000, but the floor plans showed available space to the amount of \$8,000, all of which space he believed would be disposed of. The floor plans had been sent out, and copies could be sent to anyone interested.

Through the kind offices of the New York Botanical Society, the Convention Garden had been laid out in the Botanical Garden, Bronx Park. Blueprints of the planting space had been prepared, and would be distributed within a few days. Already about twenty applications for planting space had been received. The members of the Board, later, inspected the Convention quarters.

A petition from the St. Louis Florists' Club asking that the Executive Board change the Convention date for 1918 to the period in spring when the National Flower Show would be held, was considered, and the change, by motion, approved, in accordance with power conferred under the amended by-laws. Mr. Gude stated that he had obtained the opinion of counsel in Washington on the legality of this procedure, and it was confirmed.

It was decided to recommend to the incoming president the reappointment of the entomologist for the next ensuing year, in order that he may complete the special work enumerated in his report to the Houston Convention. Dr. Britton, on whom the superintendence of the Convention Garden devolved, was authorized to draw upon the Society for money required for the prosecution of the work on the garden, as needed, to the extent of \$1,000; the same to be deducted from the income from space.

A letter from Theodore Wirth, chairman of the Convention Garden Committee, asking that, in the event of National Flower Show dates being adopted for the St. Louis Convention, he be authorized to arrange, if possible, for an "inside" garden, was discussed and the required authority ordered to be granted. After votes of thanks to the Secretary, Botanist, Pathologist, and Entomologist, adjournment was taken for the luncheon tendered by the New York Florists' Club.

The Board reconvened at 2 P. M. Appreciating the greatly increased duties of the Secretary in connection with the work of the Society, the Board ordered an increase in his salary amounting to \$500. On the question of a stipend to be paid the chairman of the National Flower Show Committee for his services in connection with the Fourth National Flower Show, Philadelphia, referred to the Board at the Houston Convention, it was directed that the same be \$1,000. It was also resolved that such officer hereafter be granted ten per cent of the net proceeds of a National Flower Show, and that members of the Committee be allowed \$5.00 per day as subsistence from the time they leave home until they return, when on National Flower Show business.

Thomas Roland, of the National Flower Show Committee, was in attendance at the Saturday morning session. Treasurer J. J. Hess presented his report covering the period July 15th to December 31st, 1916; also the auditor's certification of audit. The Board authorized the treasurer to invest as much of the general and permanent funds, and all other funds he could consistently spare at this time in gilt-edge first mortgages on real estate; such investments to be made with the approval of the president and the secretary. The bond of the treasurer was increased to \$30,000, and that of the secretary to \$10,000.

The appropriations of last year were continued, excepting that the appropriation for the stenographic report of the convention was left in the hands of the secretary.

A prolonged discussion took place as to the advisability of so amending the by-laws that the secretary be elected by the Executive Board instead of by the convention as at present. Pros and cons were very carefully considered, and there appeared to be much unanimity of opinion. Finally, the following resolution was passed by a unanimous vote:

WHEREAS, This Executive Board is held responsible for the government of the affairs of the Society; and

WHEREAS, The Constitution and By-Laws have been amended that all Directors be elected to office by the members at-large instead of appointment by the President; therefore

BE IT RESOLVED, That Section 2 of the Constitution and By-Laws be amended so that the Secretary be elected by the Executive Board for a term of one year at the mid-lent meeting of the Board.

The term "mileage" employed in the Constitution and By-Laws was discussed and it was decided that the definition of "mileage" should be the nearest distance between the place where a director lived and where a meeting was to be held; and that the compensation or rate be seven cents per mile one way. The convention pro-

gramme is left in the hands of the vice-president and secretary. An appropriation of \$1,000 was made to the Florists' Telegraph Delivery for publicity purposes.

The balance of the morning session was devoted to a discussion of the working conditions of the National Flower Show Committee, the individual efforts of its members, the absence of a proper appreciation of the time expended on the project by them, and the sacrifices of personal interests incurred during the progress of such work.

At the afternoon session Patrick Welch was appointed chairman of the standing committee on National Credits and Collections.

The board, at the request of Chairman Asmus, of the National Flower Show Committee, authorized payment of mileage of representatives of the Rose and Carnation Societies when called to meetings of the committee. The committee on final resolutions, George W. Hess, chairman, William R. Nicholson and Daniel MacRorie, then presented the following resolution, which was adopted by a rising and unanimous vote:

WHEREAS, At the mid-lent session of the Executive Board of the S. A. F. & O. H., the visiting members and others in attendance have enjoyed the greatest courtesy and hospitality at the hands of the New York Florists' Club; therefore

BE IT RESOLVED, That we tender to our hosts our most heartfelt thanks for all the attention paid to us. We also thank the management of the International Flower Show for courtesies extended. We further desire to heartily thank Vice-President Miller for his kind invitation to visit the Long Island florists on Sunday.

After further discussion of a few matters informally, the Board adjourned sine die.

The members of the board in the evening were again the guests of the New York Florists' Club, at the Club's banquet at the Hotel Biltmore.

JOHN YOUNG, Secy.

HORTICULTURAL SOCIETY OF WESTERN PENNSYLVANIA.

The monthly meeting of the Horticultural Society was held Tuesday evening, March 20th. There was quite a display of Easter plants. Neil Forsyth received a cultural certificate for finely grown *Formosum* lilies. Mr. Labossii received a cultural certificate for lilies and Mr. Tyler was awarded a certificate of culture for carnations *Belle Washburn*.

The members of this society have decided to open the April meeting to the public. All members present at the March meeting have promised to come ready to answer any practical question that may be asked and we hope all members who read this will also come prepared to do the same.

Members who attended the New York and Philadelphia shows gave us some very graphic accounts of the various exhibits and also told us we would have to put our best work to growing the material for the Pittsburgh June Show if we wish to keep the prizes in this city.

ERNEST R. BOLTON, Secy.

At the meeting of the Gardeners' and Florists' Club, of Boston, on April 17, there will be an illustrated lecture on Artificial Irrigation by George N. Barrie.

BOSTON SPRING SHOW



VIEW OF THE "FINNISH GARDEN," BY R. & J. FARQUHAR & Co.

This beautiful exhibition, of which we gave a general account last week, seems to have the unanimous approval of everybody as the finest show ever staged by the Massachusetts Horticultural Society. Universal satisfaction with such an affair is an unusual thing but it has for once been attained, judging from the opinions of visitors, ex-

hibitors and newspapers. This of course, does not include prize awards. In the nature of things these can never please all and the finer the show the more to be expected are the award kicks.

Chester I. Campbell was the business manager of the affair and it is asserted that this astute publicity manipulator

got the lion's share of the credit. But even so the lesson was worth all it cost to the Society as showing how the public will respond when the right chord is touched. Never before has the capacity of Horticultural Hall been so taxed by a flower show multitude.

But the show itself was exceptional in its quality and arrangement. James

Wheeler was responsible for the latter and displayed Napoleonic ability in the way he handled the overwhelming mass of material which came in at the last moment. Gradually, too, the exhibitors of large groups are coming to show greater skill and intelligence in the placing of their plants and the arrangement of colors.

Once more the commercial element predominated in the extent and quality of exhibits, reversing the situation existing a few years ago when the spring show was made almost exclusively by the large private estates. The latter were, however, creditably represented and by none better than by E. B. Dane, whose orchid display was a galaxy of rare gems, and A. W. Preston and Weld Gardens, both of whose spring bulb displays were very extensive.

An innovation much appreciated by the public was the appointment of a staff of expert gardeners by President Saltonstall to circulate about the hall and give information to visitors concerning plants and flowers exhibited and their culture.

Julius Roehrs Company, Rutherford, New Jersey, sent their big shipment of orchids by auto truck, fearing that it might get tied up on the railroad.

The arrangement of the Edgar plant group was generally commented upon as a great advance over the stereotyped solid bank of plants. Next year we shall see more of it.

List of Awards.

List of prizes and gratuities awarded at the Spring Exhibition of the Massachusetts Horticultural Society, March 21-25, 1917.

PLANTS.

Acacia group, 1st, Thomas Roland. Three Acacias, 1st, Thomas Roland. Specimen Acacia, Thomas Roland.
12 Amaryllis, Mrs. J. M. Sears.
Aster collection, W. W. Edgar Co.
Azalea indica group, 1st, A. M. Davenport; 2d, W. W. Edgar Co. 3 Azaleas (commercial growers excluded), 1st, Miss Cornelia Warren.
6 pans Chionodoxa, 1st, Mrs. J. L. Gardner.
4 Clivias (*Imantophyllum*), 1st, Faulkner Farm.
6 Cinerarias, *grandiflora*, 1st, Mrs. J. M. Sears; 2d, E. A. Clark. Specimen Cineraria, 1st, Mrs. J. M. Sears. 6 Cineraria *stellata*, 1st, Mrs. J. L. Gardner; 2d, Mrs. Robert Saltonstall. Specimen Cineraria *stellata*, 1st, Mrs. J. L. Gardner.
8 Cyclamens, 1st, Mrs. Lester Leland; 2d, Mrs. J. L. Gardner. 8 plants, 7 in. pots, 1st, Mrs. J. L. Gardner; 2d, Mrs. Lester Leland.



GENERAL VIEW IN THE ST. LOUIS SPRING EXHIBITION.

4 Cytisus, 1st, Miss Cornelia Warren. Specimen Cytisus, 1st, Miss Cornelia Warren.
6 Ericas, 2d, Miss Cornelia Warren.
6 pots Freesias, 1st, Mrs. C. G. Weld; 2d, Mrs. J. L. Gardner.
6 pots Galanthus, 1st, Mrs. J. L. Gardner; 2d, A. W. Preston.
6 pots Grape Hyacinths, 1st, A. W. Preston; 2d, Mrs. J. L. Gardner.
12 pots Hyacinths, 1st, Weld Garden; 2d, Mrs. J. L. Gardner. 6 pots Hyacinths, 1st, Weld Garden. Specimen dark blue or purple, 1st, Weld Garden with King of the Blues. Light blue, 1st, Weld Garden with Queen of the Blues; 2d, Mrs. J. L. Gardner with Enchantress. Dark pink or red, 1st, Weld Garden with Victoria; 2d, Mrs. J. L. Gardner with Victoria. Light pink, 1st, Mrs. J. L. Gardner with Jacques; 2d, Weld Garden with Gigantea. Yellow, 1st, Mrs. J. L. Gardner with City of Haarlem; 2d, Weld Garden with City of Haarlem. White, 1st, Weld Garden with La Grandesse; 2d, Mrs. J. L. Gardner with La Grandesse.
Hydrangea group, 1st, W. W. Edgar Co.; 2d, A. M. Davenport. 2 Hydrangeas, 1st, A. M. Davenport. Specimen Hydrangea, 1st, A. M. Davenport.
6 pots Jonquils, 1st, A. W. Preston with *campanelle rugulosus*.
6 Lilacs, 1st, Faulkner Farm; 2d, W. W. Edgar Co.
Lily group, 1st, W. W. Edgar Co.
6 pots Lily of the Valley, 1st, Mrs. C. G. Weld; 2d, A. W. Preston.
4 pots Marguerites, 1st, Mrs. C. G. Weld; 2d, Faulkner Farm. Specimen Marguerite, 1st, Mrs. C. G. Weld.
10 pots large trumpet Narcissi, 1st, Weld Garden; 2d, A. W. Preston. 5 pots, 1st, A. W. Preston; 2d, Weld Garden. 10 pots short trumpet, 1st, A. W. Preston; 2d, Weld Garden. 5 pots, 1st, A. W. Preston; 2d, A. W. Preston. Specimen, any double variety, 1st, Weld Garden; 2d, A. W. Preston.
Orchid group arranged for effect, 250 sq. ft., 1st, F. J. Dolansky; 2d, Julius Roehrs

Co. Group arranged for effect, 200 sq. ft. (commercial growers excluded), 1st, E. B. Dane; 2d, Mrs. C. G. Weld. 6 plants, 6 varieties, 1st, J. T. Butterworth. Specimen plant, 1st, Miss Cornelia Warren.
2 Kentias, 1st, Weld Garden. 2 Phoenix Roebelinii, 1st, Weld Garden.
6 Primula *acaulis*, 1st, Wm. Sim. 8 Primula *malacoides*, 1st, Mrs. C. G. Weld; 2d, A. E. Parsons. 8 Primula *obconica*, 1st, Wm. Whitman; 2d, Mrs. C. G. Weld. Polyantha hybrids, 1st, William Sim; 2d, Mrs. C. G. Weld.
Specimen Rose, pink, 1st, Miss Cornelia Warren with Tausendschoen.
6 Schizanthus, 1st, E. S. Webster; 2d, Miss Cornelia Warren. Specimen plant, 1st, Faulkner Farm.
4 pans Scilla *campanulata*, 1st, Mrs. J. L. Gardner.
12 pans single early Tulips, 1st, A. W. Preston; 2d, Weld Garden. 6 pans, 6 varieties, 1st, A. W. Preston; 2d, Mrs. J. L. Gardner. 1 pan bicolor, 1st, A. W. Preston with Cerise Griseelin. 1 pan pink, 1st, A. W. Preston with Flamingo; 2d, Weld Garden with Pink Beauty. 1 pan pink and white, 1st, A. W. Preston with Queen of the Netherlands. 1 pan red, 1st, A. W. Preston with Brilliant Star; 2d, A. W. Preston with La Grandeur. 1 pan red and yellow, 1st, A. W. Preston with Keizerkroon. 1 pan yellow, 1st, A. W. Preston with Rising Sun. 1 pan white, 1st, A. W. Preston with White Hawk; 2d, Weld Garden with Joost Van Vondel. 6 pans double, 6 varieties, 1st, Weld Garden; 2d, A. W. Preston. 1 pan pink, 1st, Weld Garden with Murillo; 2d, A. W. Preston with La Grandesse. 1 pan red, 1st, A. W. Preston with Vuurbaak. 1 pan yellow, 1st, A. W. Preston with Lady Godiva. 12 pans Darwins, 1st, Weld Garden.
6 Hyacinths (amateurs), 1st, Margaret A. Rand with Queen of the Pinks; 2d, Miss Margaret A. Rand with Queen of the Blues.
12 Narcissi, 1st, Margaret A. Rand with King Alfred; 2d, Margaret A. Rand with Glory of Leiden.
12 Tulips, 1st, Margaret A. Rand with

'HAMBURG LATE WHITE' CHRYSANTHEMUM

CERTIFICATE OF MERIT AWARDED BY CHRYSANTHEMUM SOCIETY OF AMERICA.



Above picture was taken Nov. 26, 1916, and will give a good idea of what "Hamburg Late White" looks like when grown to single stems and planted six inches each way.

Rooted Cuttings, \$12.00 per 100; \$100.00 per 1000.

2 inch pots, \$15.00 per 100; \$125.00 per 1000

WILLIAM F. KASTING CO.,

568-570 Washington Street
BUFFALO, N. Y.

"Hamburg Late White" is pure white under all weather conditions and is a sport of Maud Dean white, but has no trace of pink, as the original.

The average grower of chrysanthemums must have varieties which are easy to handle and from which he can cut as near 100% of perfect blooms as possible. "Hamburg Late White" has been grown for the last four years and produces a very high proportion of good flowers. It is not an exhibition variety, but for late white, one of the best for commercial purposes. It can be had in bloom the latter part of November, by taking an early bud; but by selecting later buds, most of the flowers are cut during December and we would advise to select a late bud, as the later buds come somewhat fuller, and by selecting late buds, flowers can be had as late as the middle of January.

Keeping qualities are excellent and where a light, graceful white flower is wanted, "Hamburg Late White" cannot be surpassed.

"Hamburg Late White" will be disseminated in the Spring of 1917. Plants will be ready for April delivery, and all orders will be filled in rotation.



Sim's Hybrid Yellow Polyanthus

(Giant English Primrose)

GOLD MEDAL AWARDED AT PHILADELPHIA

This is the best selling novelty in years. They make charming pot plants for Easter and are indispensable for cutting. They bloom from December to May. Stock is limited. Strong divisions for May delivery.

Prices: 100 \$7.50, 500 \$25.00, 1000 \$50.00

AURICULA PLANTS one year old in bud and bloom
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Collection of forced bulbs, 1st, Margaret A. Rand.

Display of foliage and flowering plants, 1st, A. M. Davenport; 2d, W. W. Edgar Co. Collection forced shrubs, 1st, A. M. Davenport; 2d, Faulkner Farm. Display spring bulbous plants, 1st, Weld Garden; 2d, Mrs. J. L. Gardner. Hard wooded greenhouse plant group, 1st, Mrs. C. G. Weld; 2d, Miss Cornelia Warren.

Any other plant or flower not above-mentioned, 1st, E. S. Webster with Gloriosa Rothschildiana.

Any new or rare plant in flower, 1st, A. W. Preston with Laelio-Cattleya L. C. Black.

Any new or rare foliage plant, 1st, Cromwell Gardens with Adiantum Gloriosum Lemkesil.

Collection of bulbs (private gardeners only), prize offered by Zandbergen Bros., Valkenburg, Holland, 1st, Weld Garden.

CUT FLOWERS.

Antirrhinums, 25 spikes, 1st, W. R. Nicholson; 2d, Mrs. C. G. Weld.

12 Camellias, 1st, Mrs. J. M. Sears; 2d, A. Mathews.

100 Carnations, one variety, 1st, A. A. Pembroke with Pink Sensation; 2d, Littlefield & Wyman. 50 crimson, 1st, J. W. Minott with Pocahontas. 50 dark pink, 1st, A. A. Pembroke with Rosette; 2d, Littlefield & Wyman with Miss Theo. 50 light pink, 1st, A. A. Pembroke with Pink Sensation; 2d, A. A. Pembroke with Pink Delight. 50 scarlet, 1st, Littlefield & Wyman with Belle Washburn; 2d, A. A. Pembroke with Champion. 50 variegated, 1st, James Wheeler with Benora; 2d, A. A. Pembroke with Benora. 50 white, 1st, Strout's with Matchless; 2d, B. K. Farr with Matchless. 50 yellow, 1st, B. K. Farr with Yellow Prince. 25 any undisseminated variety, 1st, A. A. Pembroke with Seedling No. 10; 2d, W. D. Howard with Bernice.

25 scarlet (private gardeners only), 1st, Mrs. C. G. Weld with Beacon; 2d, Mrs. Frederick Ayer with Beacon. 25 variegated, 1st, W. H. Wellington. 25 white, Mrs. C. G. Weld with Matchless; 2d, W. H. Wellington with White Wonder. 50 mixed, 1st, A. W. Preston; 2d, Mrs. Frederick Ayer.

100 Freesias, 1st, Mrs. C. G. Weld; 2d, A. E. Parsons.

12 Gardenias, 1st, E. B. Dane; 2d, Mrs. C. G. Weld.

100 yellow Marguerites, 1st, James Wheeler.

12 spikes Mignonette, 1st, Wm. R. Nicholson; 2d, Mrs. C. G. Weld.

Orchids, collection arranged for effect, 1st, F. J. Dolansky; 2d, E. B. Dane.

100 Pansies, 1st, Osgood Bros. Pansy display, 1st, Osgood Bros.

25 Tea or Hybrid Tea, dark pink, 1st, Waban Rose Conservatories with Lady Alice Stanley. Light pink, 1st, A. N. Pierson, Inc., with Ophelia; 2d, Waban Rose Conservatories with Ophelia. Red, 1st, Waban Rose Conservatories with Hadley; 2d, Thomas Roland with Richmond. Any other color, 1st, Waban Rose Conservatories with Mrs. Bayard Thayer.

25 Sweet Peas, lavender, 1st, Burt the Florist with Mrs. A. Spanolin. Light pink, 1st, Thomas Roland with Mrs. Skach; 2d, Alex Magnuson with Christmas Pink Orchid; 3d, Burt the Florist with Yarrowa. White, 1st, Thomas Roland. Any other color, 1st, Burt the Florist with Concord Winsome.

100 single Violets, 1st, Edward Bingham with Princess of Wales; 2d, William Sim with Princess of Wales.

Artistic arrangements of cut flowers by Boston Cut Flower Co., Penn the Florist, Henry R. Comley, Houghton & Gorney Co., Caplan the Florist, Isthmian Farm.

GRATUITIES.

William Whitman, Palms, Cinerarias and spring flowering plants; Kameyama & Serada, foliage and flowering plants; Wm. Sim, hybrid Polyanthus; Robert Saltonstall, Fuchsias and Primula obconica; L. D. Towle, Brasso-Cattleya; M. A. Patten, Godfrey Callas; Robert Saltonstall, standard Geraniums; A. A. Pembroke, crimson Carnations; Mrs. Charles Van Brunt, Statice Suworowi.

SPECIAL AWARDS.

Gold medals to R. & J. Farquhar & Co. for Flemish Garden, and Julius Roehrs Co. for collection of choice and rare Orchids.

Silver medals to F. Dorner & Sons Co., for Carnation Laddie; Wm. Sim for garden arrangement of Auriculas; Thomas Roland, Ericas; Wm. Sim, Polyanthus hybrids.

Certificates of merit to A. N. Pierson, Inc., Hardy climbing Rose Elizabeth Ziegler; Wm. Sim, improved blue Primrose; Walter Hunnewell, Rhododendron lutescens.

Honorable mention to Strout's, for seedling Carnation Snow White; Mrs. Breck,



DREER EXHIBIT AT THE NATIONAL ROSE FESTIVAL, PHILADELPHIA.
This Shows 171 Named Tested Hardy Garden Roses

Dutch garden; S. J. Goddard, crimson seedling Carnation; Lowthorpe School of Horticulture, flowering Geraniums; A. W. Preston, Tulip President Wilson; Walter Hunnewell, Acacia Drummondii.

Votes of thanks to Mrs. Robert Saltonstall, stocks and collection of cut flowers; S. J. Goddard, Carnation Doris; John Lawrence, seedling Carnations.

FRUITS.

Collection Winter Apples, 1st, A. B. Howard & Son; 2d, F. L. Chamberlain. 2 varieties, 1st, F. L. Chamberlain; 2d, A. B. Howard & Son. 1 variety, 1st, F. L. Chamberlain; 2d, F. L. Chamberlain.

Pears, 1st, John Bauernfeind; 2d, F. W. Dahl.

Gratuities: George V. Fletcher, apples; Mrs. R. Goodnough, basket of fruit.

VEGETABLES.

Cucumbers, 1st, J. W. Stone. Lettuce, 1st, M. E. Moore; 2d, H. M. Howard. Mushrooms, 1st, A. W. Crockford; 2d, G. A. Christofferson. Radishes, 1st, A. W. Crockford; 2d, J. W. Stone. Rhubarb, 1st, David R. Craig.

OILING THE MACHINERY.

The members of the working committees, judges and press representatives of the Massachusetts Horticultural Society were entertained by President R. M. Saltonstall at luncheon at the Hotel Somerset on Friday, March 23. There was a very earnest interchange of views as to what course should be pursued to increase the public value of the exhibitions and maintain for the society that prestige which it has hitherto held as an active force in the advancement of Horticulture in America. President Saltonstall emphasized strongly the necessity for all interests to pull together and the splendid results that can be accomplished by thorough organization and business methods. The remarks that followed, by James Wheeler, manager of the spring exhibition; Ex-President J. K. M. L. Farquhar; Chester I. Campbell, publicity promoter; President James Methven, of the Gardeners' and Flor-

ists' Club; C. S. Strout, vice-president of the American Carnation Society; Henry Penn, of the local retail florists' organization and W. N. Craig, secretary of the Gardeners' and Florists' Club, were all enthusiastic and ringing with assurance of a great concerted movement, the purposes of which is to pull all together and hustle for Boston's flower show supremacy. The outdoor show to take place next June, the Ter-centennial of the Landing of the Pilgrims now near at hand and the Centennial of the organization of the Massachusetts Horticultural Society soon to follow were mentioned as occasions for which preparedness is now in order. The atmosphere of the meeting was decidedly stimulating and the sentiments expressed were full of vim. Boston proposes to hold her place on the horticultural map.

PHILADELPHIA ROSE FESTIVAL.

The Robert Craig Co. made a good showing of their new fern, Nephrolepis "Norwood."

Wm. K. Harris had an excellent display of Easter plants in variety covering some 200 square feet.

Wm. Kleinheinz added a touch of variety to the exhibition with his collection of specimen acacias, cricas, and other ornamental flowering plants.

By special request the rose show was kept open on Saturday, making five days instead of the four planned originally. All the exhibits were kept freshened up every day so that a creditable display greeted visitors to the last.

At the windup when the exhibits were being removed some skunk florist stole three plants of Dreer's wonderful new hybrid tea "Golden Emblem," one of the features of the show.

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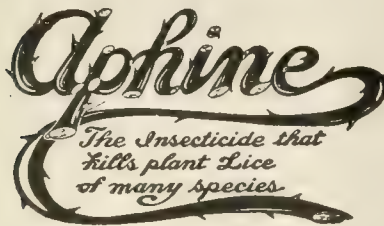
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If any one can put the society on the track of the villain he will be doing a commendable act. Address in strict confidence, Samuel S. Pennock, President, 1614 Ludlow St. It is not the money value. Such skulduggery throws mud on all of us. So it's up to all of us to help remove the stigma by finding the malefactor.

One day later: Through clever sleuth work on the part of E. J. Fancourt, the three plants of Golden Emblem have been recovered—and returned to Messrs. Dreer. So the incident that looked like a blot on our trade escutcheon is now happily closed. We mention no names; but are glad to say that they were not in the trade.

A well deserved compliment was paid to the floor manager of the show, William Kleinheinz, by the presentation on Saturday night of a pair of gold sleeve links in recognition of his splendid service. For first-class efficiency gratuitously contributed, the rose show owed a debt to Mr. Kleinheinz that money could not buy and all that could be done was to show appreciation in public approval.

The Rose Festival did not figure out a financial profit; on the contrary there will be a moderate deficit. But there was no space available for trade displays and consequently this source of revenue was not possible. Had it been so, the undertaking would unquestionably have been a money making proposition. The total attendance was over 28,000. In addition to the officers listed as elected, in our issue of last week, members of the executive committee were chosen as follows: George C. Thomas, of Philadelphia; Aaron Ward, of Roslyn, N. Y.; Jesse A. Curry, of Portland, Ore.; W. J. Keimel, of Chicago, and John H. Dunlop, of Richmond Hill, Ontario, Canada.

National Rose Festival List of Awards.

Twenty-five Mrs. Charles Russell—Harry O. May; 2d, Robert Scott & Sons.

Twenty-five Killarney Brilliant—Adolph Farenwald; 2d, John Andre.

Twenty-five Killarney Queen—Bedford Floral Company.

Twenty-five Killarney or any pink sport of the Killarneys—Joseph Heacock; 2d, Robert Scott & Sons.

Twenty-five White Killarney—John R. Andre; 2d, Robert Scott & Sons.

Twenty-five White Killarney or any white sport of the Killarneys—W. A. Leonard; 2d, Robert Scott & Sons.

Twenty-five Hoosier Beauty—Joseph Heacock; 2d, A. N. Pierson.

Twenty-five Red Radiance—A. N. Pierson.

Twenty-five Radiance—John Stephanson Sons.

Twenty-five Hadley—Joseph Heacock; 2d, Adolph Farenwald.



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Twenty-five Mrs. George Shawyer—Flores Gardens; 2d, Adolph Farenwald.

Twenty-five Lady Alice Stanley—A. N. Pierson.

Twenty-five Radiance—John Stephanson Sons.

Twenty-five My Maryland—John Stephanson Sons; 2d, A. N. Pierson.

Twenty Jonkheer J. L. Mock—Gude Bros. Co., Washington, D. C.; 2d, August Doemling.

Twenty-five Mad. Paul Euler—Edward Towill; 2d, John Andre.

Twenty-five Cleveland—Harry O. May.

Twenty-five Ophelia—Joseph Heacock; 2d, A. N. Pierson.

Twenty-five Sunburst—J. H. Dunlop; 2d, John Stephanson Sons.

Twenty-five Mrs. Aaron Ward—John Stephanson Sons; 2d, A. N. Pierson.

Twenty-five any other disseminated variety, pink—John Stephanson Sons; 2d, Flores Gardens.

Display in pots or tubs, not less than 300 square feet; arranged for effect—A. N. Pierson, Inc., Cromwell, Conn.

Twelve climbing or rambling—John Wanamaker, Jenkintown, Pa.

Dorothy Perkins specimen plant—John Wanamaker.

Climbing or other specimen—A. N. Pierson; 2d, John Wanamaker.

Display of Hybrid Teas, 100 square feet—2d, John W. Pepper, Jenkintown, Pa.; no first awarded.

One hundred American Beauties—George Burton; 2d, Myers & Santman; 3d, Alfred Burton.

Fifty American Beauties—Adolph Farenwald; 2d, George Burton; 3d, Alfred Burton.

One hundred Mrs. Charles Russell—Harry O. May; 2d, Victor Groschens; 3d, August Doemling.

One hundred Hadley—Joseph Heacock.

One hundred Hoosier Beauty—A. N. Pierson; 2d, Harry O. May.

One hundred Killarney or any pink sport of the Killarneys—John R. Andre; 2d, Joseph Heacock; 3d, Bedford Floral Co., New York.

One hundred White Killarney or any white sport of the Killarneys—A. N. Pierson.

One hundred Sunburst—John Stephanson Sons; 2d, A. N. Pierson.

Fifty Mrs. Charles Russell—John Dunlop, Toronto, Can.; 2d, Robert Scott & Son; 3d, W. A. Leonard.

Best hundred roses entered, sweepstakes, Rodman Wanamaker Cup—Won by Joseph Heacock.

Best vase of 50 roses entered, sweepstakes, McDonald & Campbell Cup—Won by Joseph Heacock.

Best vase of 25 roses entered, sweepstakes, "The Philadelphia Record" Cup—Won by Joseph Heacock.

Best collection of Polyantha, not less than six varieties, Mrs. J. Willis Martin Cup—Won by Myers & Santman.

Twenty-five American Beauties—Myers & Santman; 2d, Adolph Farenwald; 3d, Alfred Burton.

Fifty Hoosier Beauty—L. B. Coddington; 2d, H. L. May.

Fifty Francis Scott Key—Augustus Doemling.

Fifty Red Radiance—A. N. Pierson.

Fifty Hadley—Joseph Heacock; 2d, Edward Towill.

Fifty Milady—A. N. Pierson.

Fifty Mrs. George Shawyer—Flores Gardens; 2d, Adolph Farenwald.

Fifty Lady Alice Stanley—A. N. Pierson.

Fifty Radiance—John Stephanson & Son.

Fifty Mad. Paul Euler—L. B. Coddington; 2d, John Andre.

Fifty Cleveland—Harry O. May.

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Halley, Salmon pink to bright red	.25	1.50	12.50
Mrs. Francis King, Vermilion scarlet	.30	1.75	15.00
Panama, An improved America	.40	3.00	25.00
Pink Perfection, Rose pink	.60	4.00	35.00
Princeps, Rich crimson, extra large	.40	3.00	25.00

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11/12 50 in a case	1.10	8.00	75.00
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THE NEW YORK FLORISTS' CLUB.

The next meeting of the New York Florists' Club, Monday, April 9, will be Sweet Pea Night and the exhibition committee is desirous of making a good display, and ask growers of sweet peas to kindly send an exhibit. The committee would also like an exhibit from growers that are not sweet pea specialists to send along any other novelty in the flower line that they may specialize in; that would be of interest to the club. All exhibits shipped by express should be addressed to John Young, No. 53 West 28th street, New York, and must reach him not later than 6 P. M. on Monday, April 9.

The exhibition committee will be on hand to arrange all exhibits and see that they are properly staged.

C. W. KNIGHT, Chairman.

ASSOCIATION OF KEW GARDENERS IN AMERICA.

The above association held its second annual banquet and reunion on March 16 at Shanley's, New York, when members, their wives or lady friends and horticultural friends spent a very enjoyable evening. The evening was divided into three sections, business, banquet and entertainment. During the business meeting there were some important plans laid before the members regarding the organization of the association on a permanent basis, which met with the approval of all present. These plans will be submitted to all members in the different States of the Union and Canada. The same officers were re-elected: Presi-

dent, Montague Free; vice-president, James McPherson; secretary and treasurer, S. R. Candler.

There were nearly thirty who sat down to a very enjoyable dinner which was served in a very nice way by the famous house of Shanley's.

Before the dinner a very interesting time was spent when most of the members helped to make the time enjoyable. The members and friends who assisted were J. Jennings, C. W. Lider, Mr. and Mrs. Montague Free, F. Cane, H. E. Downer, Harrison Dick, Mrs. Candler, Robert Barton, Robert Cameron and Edward Canning. The meeting broke up at a late hour when all joined in and sang Auld Lang Syne, all eager for the next reunion to come around.

S. R. CANDLER, Sec.

PUBLICATIONS RECEIVED.

Aristocrats of the Garden, by Ernest H. Wilson, Arnold Arboretum, Boston. Author of "A Naturalist in Western China." Published by Doubleday, Page & Co., Garden City, N. Y. Edition limited to 1200 copies. This book is largely a reprint from the notable contributions by Mr. Wilson to the columns of The Garden Magazine. These articles have awakened widespread enthusiasm of the most progressive kind and their appearance in book form marks a mile post, so to speak, in the advancement of American horticulture.

It is sterling from start to finish. Mr. Wilson's narrative style is very captivating and we have taken a keen delight in reading its pages. The type used is large and altogether it is a book that will prove a real treat to the lover of the hardy garden.

The chapters are as follows: The Story of the Modern Rose, "Consider the Lilies," Midsummer Flowering Trees and Shrubs, The Best of the Hardy Climbing Shrubs, Ornamental Fruited Trees and Shrubs, The Glory of the Autumn, The Best Hardy Conifers, Broad-Leaved Evergreens for Northern Gardens, New Chinese Trees and Shrubs, Early Spring-Flowering Trees and Shrubs, Japanese Cherries and Asiatic Crabapples, In "Lilacdom," New Herbaceous Plants from China, "Hardy" Rhododendrons, The Story of the Davidia, Epilogue. The full page illustrations: The Mountain Laurel, The Sargent Rose, Liliun Sargentiae, Gordonia altamaha, Clematis montana var. rubens, The Snowberry, The Silver Birch, The Concolor Fir, Yucca flaccida, Evonymus radicans var. vegetus, Chinese Pistach Tree, Magnolia Soulangiana, The Crabapple, Lilacs, Senecio clivorum, Primula pulverulenta, Rhododendron caucasicum, Davidia involucrata.

There are 312 pages and the enormous amount of plant mention they contain is shown in the index, which fills over 22 columns of fine type.

The Monthly Bulletin of the Ohio Agricultural Experiment Station for March 1917, published at Wooster, Ohio, contains a very useful and commendable article on Ornamental Windbreaks, by W. E. Bontrager, showing how evergreens may be grouped with small trees and flowering shrubs to produce cheerful and attractive results as compared with straight-row windbreaks.

PERSONAL.

C. W. Ward of Eureka, Cal., has been ill in bed for the past six weeks and is recovering now, but slowly.

W. G. Woodger, recently at "The Gardens," Pocantico Hills, N. Y., has accepted the position of superintendent on the Booth estate, Great Neck, Long Island, N. Y.

The Elm City Nursery Company, Woodmont Nurseries, Inc., of New Haven, Conn., inform us that they will now be able to proceed with the development of their extensive new nurseries at Woodmont, Conn., as the New Haven Railroad's plans which would have taken all their nursery properties, have been so changed as to make this possible.



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Cincinnati—Wm. Rodgers, Miami Floral Co., Dayton, Ohio; Julius Dillhoff, New York City; Frank Ball, Indianapolis, Ind.; Henry Ehrhardt, Sidney, Ohio; Mr. and Mrs. G. A. Beckman, Middletown, Ohio.

Chicago—Samuel Murray, Kansas City, Mo.; Mr. Leidiger of Edlefsen Leidiger Co., Milwaukee, Wis.; Jacob J Hess, Omaha, Neb.; Daniel MacRorie, San Francisco, Cal.; A. A. Barber, Cleveland, Ohio; Mrs. Josephine DeHaven, Tulsa, Okla.

ANOTHER INDIANA TORNADO.

Another tornado swept over Indiana on Saturday, March 24th, ten days after the one that played such havoc at New Castle, Ind., and wrecked the Benthley greenhouses. The loss in this second storm was even greater than that of the first and the Rasmussen range of 175,000 sq. ft. of glass, at New Albany, was almost totally destroyed, the carnation range escaping.

Pawtucket, R. I.—Mayor Easterbrooks designated Saturday, April 21, as planting day in Pawtucket, in a communication issued March 20.

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Lowell, Mass.—James T. Kenney, Middle St.

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Indianapolis, Ind.—L. F. Benson, 22d and Park Ave.

Jackson, Miss.—Jackson Floral Co., West Capitol St.

Wellston, Mo.—James North, succeeding Alex. Johnson.

NEW CORPORATIONS.

Newton, Mass.—The Nursery, Inc., capital stock, \$5,000. Incorporators, Wallace J. Hebbard and Wm. W. Colton.

Springfield, Mass.—Higgins the Florist, Inc., capital stock, \$5,000. Incorporators, N. F. Higgins and H. E. Higgins.

Walla Walla, Wash.—Blossom Floral Co., capital stock, \$10,000. Incorporators, Frank Geck and Oscar Barteloot.

Whitestone, N. Y.—Dreyer Bros., florists, capital stock, \$50,000. Incorporators, G. M. and Henry H. Dreyer and Charles C. French.

Dansville, N. Y.—Rowan Wholesale Nurseries, capital stock, \$30,000. Incorporators, J. E. Nagle, J. A. Rowan and M. E. King, Jr.

A VISIT TO WAVERLEY, MASS.

The annual visit of the Gardeners' and Florists' Club, of Boston, to the W. W. Edgar Co., greenhouses at Waverley took place on Saturday, March 24. There was a goodly number of members present, also Fred Lautenschlager, of Chicago, and Robert Kift, of Philadelphia. The inspection of the greenhouses disclosed the usual high-class Easter stock for which this establishment has long been noted, the pot roses and the lilies being especially admired by the visitors. Lilacs, Darwin tulips and new astilbes are also extensively grown here for the Easter trade this year. A nice lunch was enjoyed after which President Methven briefly expressed the thanks of the visitors for the hospitality extended and Mrs. Edgar responded. Other speakers followed, including Herman Bartsch, James Wheeler, W. N. Craig, A. K. Rogers, W. J. Kennedy, Wm. J. Stewart, Robert Kift, Robert Cameron, Fred Lautenschlager, Peter Fisher and J. F. Briery. A plan of the proposed new buildings and other contemplated improvements was shown and was pleasurably commented upon as evidence of the continued prosperity of this popular establishment.

New York, N. Y.—A. B. Cazal has purchased the entire stock of D. J. Pappas, Inc., florists, Broadway and 106th St.

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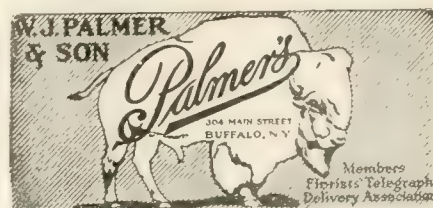
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NEWS ITEMS

BOSTON.

Ed. Welch of Welch's wholesale florists, is sick at home with the grippe.

N. F. McCarthy & Co., are seriously disappointed in their spring plant auction business by the holding-up in Holland of large shipments of nursery stock which should now be on its way to this country.

A triple flag raising in which Boy Scouts of many nationalities took part attracted much attention in Winthrop square last Saturday. The flags were raised from the two entrances of the Boston Flower Exchange at 1 Winthrop square and 32 Otis street and from the Co-operative Flower Exchange at 260 Devonshire street. Saint Vincent's Boys Band played patriotic music.

John Duguid, supt. for H. S. Hunnewell, at Wellesley, Mass., who was one of the delegates sent by the Gardeners' and Florists' Club of Boston, to the Davey Tree Surgery Convention has written a very interesting account of his trip for the Natick Tribune. Of the Davey organization he says:

"The Davey organization is the most complete system that could be devised and only the years of practical work has brought it to the high efficiency it has attained. With its schools, professors, students, foremen, library and office force makes it the most interesting place of its kind I ever expect to see. I was surprised to see so many fine young men so deeply interested in the work. It seemed they were each a part of the organization. The young man who is lucky enough to enter and study under such a system learns that which eventually will bring the country back to where it belongs.

"I believe more publicity should be given Arbor Day in the public schools and outside and laws ought to be enacted that for every tree cut down one should be planted."

PHILADELPHIA.

Commodore Westcott made his first spring visit to his farms in Waretown on the 29th inst. Grass seed, early peas, onion sets, plows, harrows and

so forth will be the text for a while and the natives will brace up from their winter sleep and roll up their sleeves.

The Pennock-Meehan Co. have opened an annex for their Easter plant trade in the big new store, 1638-40 Market street. Mr. Liggitt, the manager, reports that for quantity, quality and variety they have never been so well equipped for serving the retailers. Give them "the once over."

Because of the habit of flower vendors thrusting bouquets in the faces of passersby in an effort to make sales, the police have forbidden them to peddle their wares on Chestnut, Market and Walnut streets from Tenth to Sixteenth. Many women shoppers have complained of being annoyed by the vendors, it was said.

The Wholesale Florists' Exchange calls our attention to the fact that one of their growers took eight firsts and one second out of ten entries at the recent National Rose Festival. Another had two entries in the double white Killarney class and took both first and second on these, which is a straw which shows how the wind blows for buyers looking for high quality in roses in this market.

CHICAGO.

M. B. Hirsch, 346 E. 51st street, has sold out to Mrs. King, who takes possession at once.

Arnold Ringier is no longer with the W. W. Barnard Co., 231 W. Madison street. The relationship was severed March 23rd. Mr. and Mrs. Ringier lately returned from a trip to California.

Robt. Newcomb, of the American Bulb Co., has returned from St. Louis where he made an exhibit of novelties handled by his firm, and says the flower show was a great success. He

left at once for another trip gathering in the orders for "futures."

During the absence of Mr. and Mrs. Wm. Graham in the East where they went to see old friends and visit the flower shows, burglars made an attempt to enter their apartment but were evidently frightened away before they could secure anything.

Paul Klingsporn, manager of the Chicago Flower Growers' Association, has returned from the East bringing fine reports of the great eastern flower shows. Speaking of his trip through the wholesale markets, he says he cannot see that the stock offered for sale is in any way superior to that of Chicago.

PITTSBURGH

Frank P. Smoller, who saw three months of National Guard service and a month in the hospital last fall on the Mexican border, is preparing for active work again at the call for his regiment.

Miss Gertrude Renziehausen, a designer for the Ludwig Floral Co., had a serious accident last Saturday evening, when she was struck by an automobile just as she alighted from a trolley car en route home from work.

Walter A. Faulk has the sympathy of his friends and acquaintances in the death of his mother, Mrs. Elizaeth B. Faulk, which occurred on Monday of last week at the home of a daughter in Marienville, Pa., whom she was visiting.

Under the auspices of the Audubon Society of Western Penn. there was an interesting exhibition last Tuesday at the Fort Pitt Hotel. In connection with the exhibition was the second annual dinner of the society together with the Audubon Society of Sewickley.

Cincinnati—Mr. and Mrs. Gus Adrian, Jr., recently purchased a home on Wood avenue in Clifton. The house immediately adjoins the Adrian greenhouses.

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Valley, Sweet Peas, Lilies, Narcissi, Jonquils, Violets, Calendulas, Snapdragons, Stocks, Freesia, Callas, Tulips, Darwins, Mignonette, Daises, Pansies, Feverfew, Romans and all other seasonable stock; also Greens such as Ferns, Asparagus Sprenger, Green and Bronze Galax, Leucothoe Sprays, Adiantum, Mexican Ivy and Boxwood. We have Home Grown Asparagus, hence never a shortage here.

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Grower of

CUT FLOWERS

Prices
As
Low
As
Others



SHIPPING ORDERS GIVEN CAREFUL ATTENTION

We are in daily touch with market conditions and when a decline takes place you can rely upon orders sent us receiving such benefits.

Obituary

John G. Barker

John G. Barker, superintendent of Riverview Cemetery, South Bend, Ind., died on February 7 after a brief illness at the age of 73 years. Mr. Barker was a native of Huntingfield, Suffolk County, England. At the age of 14 he came to this country with his parents and assisted his father, who became superintendent of Forest Hill Cemetery, Utica, N. Y. He was afterwards engaged in gardening in Springfield, Mass., Philadelphia, Pa., and Cambridge, Mass., having charge of the Gardiner G. Hubbard estate in the latter place. From there he went to Pine Grove Cemetery in Lynn, then Forest Hills Cemetery in Boston, the park system of Newcastle, Pa., and thence to South Bend, Ind. While in Massachusetts Mr. Barker was very active in the Massachusetts Horticultural Society, serving faithfully on important committee work. He has long been an active member of the Association of American Cemetery Superintendents. He leaves a widow, two sons and one daughter.

Lawrence Cotter.

It is our sad duty to report the passing away of Lawrence Cotter, manager of the Lakeview Rose Gardens, Jamestown, N. Y., who died on Saturday, March 24, after a long and painful illness. He was a native of County Cork, Ireland, coming to this country when a young man, since which time

he has been active and prominent in commercial horticulture in America. We are awaiting confirmation of certain statistics regarding his life history and consequently will withhold until next week's issue these records of his career.

Lawrence Cotter was a man of force-



LAWRENCE COTTER.

ful character and intelligence much beyond the ordinary. He was an untiring reader and being possessed of a remarkable memory he was at all times well equipped to converse on any subject that came up. As a gardener

and flower grower he displayed abilities of the first rank. In manner he was trenchant and outspoken and never lacked for incisive words to express his views but he possessed a keen sense of humor and a ready wit which made him a welcome companion among a large circle of acquaintances. At heart Lawrence Cotter was kindly disposed and generous and in his passing the trade has lost a worthy representative, and his family an indulgent husband and father.

David J. Roche.

David J. Roche, one of the best-known residents of Quincy, Mass., died Wednesday night, March 21, at his home, 23 Carruth street, aged 81 years. Mr. Roche was for many years in the nursery business, and was also well known as a landscape gardener.

Rae L. Friedman.

Mrs. Rae L. Friedman, a florist, died at her home, 253 Grand street, New York City, on March 23, aged 34 years. She was born in New York.

WASHINGTON, D. C.

Z. D. Blackstone, Fourteenth and H streets, Northwest, is reported on the sick list suffering from la grippe.

A large number of Washington florists were present at the flower show in Philadelphia last week. Among those known by the HORTICULTURE correspondent to have made the trip were D. J. Grillbortzer, I. W. Staalman, F. W. Mulford, William F. Gude, Adolph Gude, George W. Hess, Ernest F. Gude, Adolph Gude, Jr., Hardy Pritchard, John Cooke, John Henry Small, Jr. and Albert Small.

BEAUTIES

Roses, Carnations, Lilies,
Gardenias, Spencer Peas

are the leaders with us for Easter. Send for
complete list and prices.

THE LEO NIESSEN CO.

Wholesale Florists

1201-05 Race Street,

PHILADELPHIA, PA.

DAVID WELCH

EDWARD J. WELCH

EASTER CUT FLOWERS

AND

FLORISTS' SUPPLIES

WELCH'S

Wholesale and Commission Florists

280-282 Devonshire Street,

BOSTON, MASS.

Tel. Fort Hill 1964-1965

EDWARD REID WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.
CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

Philadelphia Wholesale Florist Exchange

ROSES OUR SPECIALTY

A trial order will convince you
1615 Ranstead St., PHILADELPHIA, PA.

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$1.85. 50,000...\$8.00. Sample free.
For sale by dealers.

E. G. HILL CO.

Wholesale Florists

RICHMOND, IND.

Please mention Horticulture when writing.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

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Hardy Fancy Fern Our Specialty

264 RANDOLPH ST., DETROIT, MICH.

The House for Quality and Service

ZECH & MANN

We are Wholesale Florists Doing
a Strictly Wholesale Business

30 East Randolph Street, CHICAGO



POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut Flower Market

Daily consignments from
leading growers

Full line of Florists'
Supplies

Write for quotations before
ordering elsewhere

262B DEVONSHIRE ST., BOSTON, MASS.
Telephone, Main 6267-6268

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON Mar. 29		ST. LOUIS Mar. 26		PHILA. Mar 26	
Roses						
Am. Beauty, Special.....	40.00	to 50.00	.....	to 50.00	50.00	to 60.00
" " Fancy and Extra.....	20.00	to 35.00	20.00	to 30.00	30.00	to 40.00
" " No. 1 and culls.....	4.00	to 8.00	3.00	to 10.00	6.00	to 13.00
Russell, Euler, Mock.....	2.00	to 10.00	3.00	to 15.00	8.00	to 20.00
Hadley.....	3.00	to 12.00	.....	to 10.00	8.00	to 20.00
Arenberg, Hoosier Beauty.....	8.00	to 10.00	3.00	to 10.00	6.00	to 10.00
Ward.....	8.00	to 8.00	3.00	to 10.00	4.00	to 8.00
Killarney, Radiance, Taft.....	2.00	to 8.00	3.00	to 8.00	4.00	to 8.00
Ophelia, Sunburst, Hillingdon.....	2.00	to 10.00	3.00	to 10.00	6.00	to 12.00
Key.....	8.00	to 10.00	.....	to 10.00	8.00	to 20.00
Carnations	1.00	to 2.00	1.50	to 3.00	2.00	to 4.00
Cattleyas.....	30.00	to 50.00	.....	to 50.00	30.00	to 60.00
Dendrobium formosum.....	.....	to 50.00	.....	to 50.00	.....	to 50.00
Lilies, Longiflorum.....	6.00	to 8.00	.....	to 12.00	10.00	to 12.00
Lilies, Speciosum.....	4.00	to 8.00	.....	to 10.00	5.00	to 8.00
Callas.....	6.00	to 8.00	10.00	to 12.00	8.00	to 10.00
Lily of the Valley.....	8.00	to 4.00	5.00	to 6.00	5.00	to 6.00
Snapdragon.....	8.00	to 6.00	.....	to 10.00	6.00	to 12.00
Daffodils.....	.50	to 1.50	2.00	to 3.00	3.00	to 4.00
Narcissi, Paper White.....	1.50	to 2.00	.....	to 3.00	.....	to 3.00
Roman Hyacinths.....	.....	to 1.00	.....	to 1.00	.....	to 1.00
Freesia.....	1.00	to 2.00	.....	to 3.00	3.00	to 4.00
Tulips.....	1.50	to 3.00	.....	to 3.00	3.00	to 4.00
Calendulas.....	1.00	to 2.00	1.00	to 2.00	3.00	to 4.00
Sweet Peas.....	.10	to .75	.30	to 1.00	.75	to 2.00
Violets.....	.20	to .40	.....	to .30	.50	to 1.00
Marguerites.....	1.00	to 2.00	.....	to 1.50	1.50	to 2.00
Gardenias.....	2.00	to 35.00	.....	to 15.00	15.00	to 20.00
Adiantum.....	1.00	to 1.50	.....	to 1.00	.....	to 1.50
Smilax.....	12.00	to 20.00	12.50	to 15.00	25.00	to 30.00
Asparagus Plumosus, & Spreng. (100 Bchs.).....	25.00	to 35.00	25.00	to 50.00	.....	to 50.00

WILLIAM F. KASTING Co.

Wholesale Florists

568 570 WASHINGTON STREET - BUFFALO, N. Y.

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER of

CUT FLOWERS



EASTER LILIES

For Easter a magnificent lot of cut Lilies. Splendid well-grown stock

\$10.00 and \$12.00 per 100

VIOLETS

Hudson River Doubles, in splendid shape and any quantity

\$1.00 and \$1.25 per 100

Write For a Copy of Our Easter Cut Flower Price List

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THE Wholesale Florists of PHILADELPHIA

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1608-1620 Ludlow St.

BALTIMORE
Franklin & St. Paul Sts.

WASHINGTON
1216 H St., N. W.

Flower Market Reports

BOSTON The wholesale trade here is in a bad predicament with an enormous accumulation of stock far beyond any possibility of disposal. The flower markets are loaded down with daffodils, sweet peas, tulips, carnations, violets and roses for which a bidder at any price cannot be found. There is no likelihood of a change for the better, either, until the welcome Easter call begins to come to the front. We see but few cattleyas but there seems to be no other flower common to the market at this season which is not "in the doldrums."

Stock has been coming in quite freely for the past two weeks. There has been a heavy supply of roses, carnations and sweet peas and business has fallen backward. Design work, which has been lightly distributed, is about the only thing that has kept things moving. The surplus has been heavy and is carried along from day to day. Lilies, too, are very plentiful also violets and all bulbous stock. Trade has been very uneven, but a change is looked for soon.

Chicago wholesalers are facing the proposition of moving a great quantity of stock at this time and they are doing it in a way that speaks well for their salesmanship. Of course a very large proportion of the stock is sold at concessions far below quotations and the nearby retailers find it very much to their advantage to visit the market in person, but a much better feeling prevails than if prices were held at a higher figure and much stock lost thereby. Even in this case of sell at any price, totals have reached a good mark the past week. Southern daffodils, tulips and poeticus in quantity are flooding the market, with home grown ones still coming. Roses are so plentiful that it is feared by some that with the probability of warmer weather the Easter stock may be shortened.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI Mar. 26	CHICAGO Mar. 26	BUFFALO Mar. 26	PITTSBURG Mar. 26
Roses				
Am. Beauty, Special.....	50.00 to 60.00	40.00 to 50.00	40.00 to 50.00	50.00 to 60.00
" " Fancy and Extra.....	30.00 to 40.00	30.00 to 40.00	30.00 to 40.00	30.00 to 40.00
" " No. 1 and culls.....	8.00 to 25.00	6.00 to 15.00	5.00 to 25.00	15.00 to 25.00
Russell, Euler, Mock.....	4.00 to 10.00	4.00 to 10.00	10.00 to 15.00	10.00 to 25.00
Hadley.....	6.00 to 18.00	5.00 to 10.00	6.00 to 10.00	10.00 to 15.00
Arenberg, Hoosier Beauty.....	5.00 to 10.00	4.00 to 10.00	3.00 to 6.00	6.00 to 12.00
Ward.....	4.00 to 15.00	4.00 to 10.00	3.00 to 10.00	6.00 to 15.00
Killarney, Radiance, Taft.....	6.00 to 18.00	4.00 to 10.00	4.00 to 10.00	6.00 to 15.00
Ophelia, Sunburst, Hillingdon.....	4.00 to 10.00	5.00 to 12.00	5.00 to 12.00	4.00 to 10.00
Carnations	3.00 to 5.00	1.00 to 3.00	2.00 to 3.00	4.00 to 6.00
Cattleyas.....	60.00 to 75.00	40.00 to 50.00	40.00 to 50.00	60.00 to 75.00
Dendrobium formosum.....	12.50 to 15.00	10.00 to 15.00	10.00 to 12.00	10.00 to 15.00
Lilies, Longiflorum.....	12.50 to 15.00	10.00 to 15.00	10.00 to 12.00	10.00 to 15.00
Lilies, Speciosum.....	10.00 to 15.00	6.00 to 12.00	8.00 to 12.00	10.00 to 15.00
Callas.....	6.00 to 7.00	5.00 to 6.00	6.00 to 7.00	4.00 to 6.00
Lily of the Valley.....	6.00 to 12.50	6.00 to 12.00	5.00 to 8.00	4.00 to 8.00
Snopdragon.....	3.00 to 4.00	1.00 to 3.00	2.00 to 3.00	3.00 to 4.00
Daffodils.....	3.00 to 4.00	1.00 to 2.00	2.00 to 3.00	3.00 to 4.00
Narcissi, Paper White.....	3.00 to 4.00	2.00 to 3.00	2.00 to 3.00	3.00 to 4.00
Roman Hyacinths.....	3.00 to 4.00	2.00 to 3.00	2.00 to 3.00	3.00 to 4.00
Freesia.....	3.00 to 4.00	2.00 to 3.00	2.00 to 3.00	3.00 to 4.00
Tulips.....	2.00 to 4.00	2.00 to 3.00	2.00 to 3.00	3.00 to 4.00
Calendulas.....	75 to 1.50	.30 to 1.00	.60 to 1.50	.75 to 2.00
Sweet Peas.....	.75 to 1.50	.30 to .75	.30 to .50	.50 to 1.00
Violets.....	.75 to 1.00	.50 to 1.00	1.00 to 2.00	2.00 to 3.00
Marguerites.....	15.00 to 20.00	1.00 to 1.25	1.00 to 1.25	1.00 to 1.25
Gardenias.....	15.00 to 20.00	15.00 to 20.00	15.00 to 20.00	15.00 to 20.00
Adiantum.....	25.00 to 50.00	25.00 to 50.00	25.00 to 50.00	25.00 to 50.00
Smilax.....				
Asparagus Plu. & Spreu. (100 Bhs.)				

Carnation conditions have not changed any and the market is weak. Sweet peas and violets are both moving slowly. Green is not ahead of demand which has been uniformly good all the season.

Supply is sufficient and demand generally is steady and active. The supply for Easter promises to be large. Among others some particularly excellent Ophelia roses are coming in. The carnation cut promises to be good for Easter. Lilies are excellent and plentiful, also good bulbous stock.

Watchful, wistful waiting is the wholesalers' lot nowadays unless he handles Easter plants as a side line. The retail stores give the most of their attention to the plant growers' products and the plant growers are not worrying for they are all about cleaned up on Easter stock. In the meantime the buyer has the matter of cut flower prices pretty near as he chooses, except in the case of the aristocratic Hadley rose and the elusive cattleya. A better layout next week—perhaps.

(Continued on page 135)



IN CHICAGO

For the Retailer or for the Grower
KENNICOTT BROS. CO.
Wholesale Cut Flowers

H. B. KENNICOTT, President.

J. E. POLLWORTH, Sec'y and Gen'l Mgr.

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Choice Cut Flowers

New Address, 143 West 28th St., NEW YORK
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Telephone 5335, Farragut.

Call and inspect the Best Establishment
in the Wholesale Flower District.

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CONSIGNMENTS SOLICITED

PHONE 608 FARRAGUT NEW YORK
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JOHN YOUNG & CO.

WHOLESALE FLORISTS

53 WEST 28th STREET NEW YORK CITY

Consignments Solicited

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THE KERVAN COMPANY

Ferns, Mosses, Wild Smilax, Galax,
Leucothoe, Palmetto, Cycas, both fresh
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Laurel, Hemlock, all Decorative Evergreens.

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Brooklyn's Foremost and Best

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A First Class Market for all CUT FLOWERS

28 Willoughby St., Brooklyn, N. Y.

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FINE ROSES, FANCY CARNATIONS

A Full Line of ALL CUT FLOWERS.
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READY FOR BUSINESS

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HEADQUARTERS for the entire output of the

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A GOLD MEDAL is not expected by us for doing our duty by our consignors and customers

We have 22 years' experience behind us

FANCY GRADE ORCHIDS, SEPTEMBER MOON, AMERICAN BEAUTY, PRIMA
DONNA AND ALL OTHER ROSES, LILIES, CARNATIONS, VIOLETS,
ASPARAGUS AND SMILAX and all other Seasonable Flowers.

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101 West 28th Street, NEW YORK

NEW YORK QUOTATIONS PER 100. To Dealers Only

	ROSES AND CARNATIONS		Last Half of Week ending Mar. 24 1917		First Half of Week beginning Mar. 26 1917	
American Beauty, Special	39.00	to 50.00	30.00	to 50.00		
" " Fancy and Extra	25.00	to 35.00	20.00	to 30.00		
" " No. 1 and culls	8.00	to 15.00	8.00	to 15.00		
Russell, Euler, Mock	4.00	to 12.00	3.00	to 10.00		
Hadley	8.00	to 75.00	8.00	to 75.00		
Arenberg, Hoosier Beauty	1.00	to 10.00	1.00	to 10.00		
Ward	1.00	to 10.00	1.00	to 10.00		
Killarney, Radiance, Taft	1.00	to 6.00	1.00	to 6.00		
Ophelia, Sunburst, Hillingdon	1.00	to 10.00	1.00	to 10.00		
Key	2.00	to 12.00	2.00	to 12.00		
Carnations	1.00	to 2.00	1.00	to 2.00		

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Wholesale Commission Dealer in

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Methods Fair and Liberal. Relations
Satisfactory and Profitable.

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Incorporated

Wholesale Commission Florists

Orchids, Gardenias and Many Unusual
Flowers of Quality

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NEW YORK

HENRY M. ROBINSON CO. OF NEW YORK

WHOLESALE FLORISTS

55-57 West 26th Street

Telephones, 13-8510 Madison Square

MAURICE L. GLASS, Treasurer

Consignments Solicited

Flower Market Reports

(Continued from page 433)

There has been
PHILADELPHIA little change
here. American

Beauty roses were slightly more plentiful and the prospects for a good Easter crop seems excellent; but buyers should not put off their advance bookings for all that. Other roses are in good supply but no glut. Carnations remain of excellent quality and are moving well at normal prices. Orchids are on the scarce side but not enough to show an advance in prices so far. Sweet peas plentiful and very good. From the south we are receiving lots of daffodils and Mayflowers. The latter are finer this year than usual—dainty, fresh and fragrant. The season seems to have been unusually favorable to them. Greens of all kinds are scarce.

Business continues
PITTSBURGH fair, considering the pre-Easter season.

Retailers are now pushing plants to the utmost, which is interfering more or less with the cut flower trade. Last week one small retailer took a temporary lease on an entire lower floor of a big down town building, starting out with three salesmen. Cut blooms of all kinds are of good quality, sweet peas being exceptionally fine.

The market is holding
ST. LOUIS up well and luckily we have experienced no

positive glut at any time this year. Roses and carnations are in good supply and are selling at fairly good prices. Violets are on the wane, the sage of their blooms and their keeping qualities under these conditions do not impress the retailer. Sweet peas are increasing in supply and good Spencers are selling satisfactorily. Greens are in demand.

Business last week
WASHINGTON was an improvement and there

was a good demand in the local market, although prices continued very low. The price on carnations took quite a drop and they could be had at as low as \$1 per hundred. There has been quite an overproduction of sweet peas also for some time. Easter lilies are in oversupply and the sale of daffodils has been hurt by the influx of outdoor stock from the South. Tulips have been selling better, however. There is a fair demand for orchids, but little call for gardenias. Violets and mayflowers are being sold on the streets in great quantities at very low prices. Lily of the valley stands at \$6 per hundred, but is not in as large a demand as could be desired. There has been a considerable scarcity of greens, due to the heavy frost which hit the South recently.

REED & KELLER
122 West 25th St., New York
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Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

The Chicago Flower Growers' Association

Wholesale Growers of Cut Flowers and Plants

182 N. WABASH AVE., CHICAGO

Complete Line of Quality Cut Flowers and Greens

EVERYTHING SEASONABLE—PRICES REASONABLE

PATRICK WELCH, WHOLESALE FLORIST

262 DEVONSHIRE STREET, BOSTON, MASS.

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STORE OPEN FOR BUSINESS AT 6 A. M. TELEPHONE MAIN 2698.

HERMAN WEISS WHOLESALE FLORIST

Can handle shipments of growers' product satisfactorily Would like to hear from Growers of Snapdragons and Sweet Peas, etc., for the New York trade.

106 West 28th St., - NEW YORK

Tel. Farragut 3066

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Mar. 24 1917	First Half of Week beginning Mar. 26 1917
Cattleyas.....	25.00 to 75.00	25.00 to 75.00
Dendrobium formosum.....	..... to 50.00	..... to 50.00
Lilies, Longiflorum.....	4.00 to 8.00	4.00 to 8.00
Lilies, Speciosum.....	3.00 to 8.00	2.00 to 8.00
Callas.....	6.00 to 8.00	6.00 to 8.00
Lily of the Valley.....	1.00 to 4.00	1.00 to 4.00
Snapdragon.....	1.00 to 8.00	1.00 to 5.00
Daffodils.....	1.00 to 1.50	1.00 to 1.50
Narcissi, Paper White.....	1.00 to 1.50	1.00 to 1.50
Roman Hyacinths.....	..... to .....	..... to
Freesia.....	.50 to 2.00	.50 to 2.00
Tulips.....	1.00 to 2.00	1.00 to 3.00
Calendulas.....	1.00 to 2.00	1.00 to 2.00
Sweet Peas.....	.10 to 1.00	.10 to 1.00
Violets.....	.25 to .40	.25 to .40
Marguerites.....	1.00 to 2.00	1.00 to 2.00
Gardenias.....	3.00 to 35.00	3.00 to 35.00
Adiantum.....	.50 to 1.00	.50 to 1.00
Smilax.....	12.00 to 15.00	12.00 to 15.00
Asparagus Plumosus, & Spreng. (100 bunches).....	15.00 to 35.00	15.00 to 35.00

J. J. COAN, INC.

115 WEST 25TH STREET
New York

Tel., Farragut 5413-5891

EVERYTHING IN CUT FLOWERS
CONSIGNMENTS SOLICITED

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BOSTON, MASS.

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Shipping Orders Carefully Filled.

Correspondence solicited.

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HOME GROWN ASPARAGUS

CUT FLOWERS

IN ANY QUANTITY

55-57 W. 26th St., NEW YORK

UNITED CUT FLOWER CO., INC.

Flowers Sold on Commission

Consignments of

Good Stock Solicited

111 W. 28th St., - NEW YORK

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for 28 years as Commission Florist

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Wholesale Commission Florists

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We Solicit Consignments of New
England Grown Novelties.

Beechwood Heights Nurseries

Importers and Growers of

ORCHIDS

Cut Flowers of All the Leading Varieties
in their Season.

THOMAS YOUNG, Jr., Proprietor
BOUND BROOK, N. J.

Also 57 West 28th St., NEW YORK.

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display Advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. Dysart, 40 State St., Boston.
For page see List of Advertisers.

APHINE

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ASPARAGUS

Asparagus Plumosus Seedlings, \$1.00 per 100, \$5.00 per 1000. Ready May 1st. COL-
LINGDALE GREENHOUSES, Collingdale, Pa.

AZALEAS

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BAY TREES. Write for wholesale price-
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JULIUS ROEHRS CO., Rutherford, N. J.

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Hitchings & Co., New York City.

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Edwards Folding Box Co., Philadelphia.
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BOX TREES

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BOX TREES—Standards, Pyramids and
Bush. Price list on demand.
JULIUS ROEHRS CO., Rutherford, N. J.

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French, Japan, Holland and Cold Storage
Bulbs.

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Chas. Schwake & Co., New York City.
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New York City.
Bulbs and Roots.
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C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK BRANCH, 8-10 Bridge St.

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CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
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Wood Bros., Fishkill, N. Y.
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CARNATION STAPLES

Split carnations quickly, easily and
cheaply mended. Pillsbury's Carnation
Staple, 1000 for 35c.; 3000 for \$1.00 post-
paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

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Wood, Bros., Fishkill, N. Y.
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DAHLIAS

Peony Dahlia Mrs. Frederick Grinnell.
Stock For Sale.
JOHN P. ROONEY, New Bedford, Mass.

20 Dahlia tubers, all different, correctly
labeled, postpaid, \$1.00. Six sets, (120
bulbs), \$5.00. Bulb and Seed catalog free
BUNGALOW GARDENS, Netcong, N. J.

DAHLIAS—Continued

ORDERS BOOKED ANY TIME
For Fall or Spring delivery. Wholesale and
Retail. Send for Catalogue. NORTHBORO
DAHLIA & GLADIOLUS GARDENS, J. L.
Moore, Prop., Northboro, Mass.

NEW PAEONY DAHLIA

John Wanamaker, Newest, Handsomest,
Best. New color, new form and new habit
of growth. Big stock of best cut-flower
varieties. Send list of wants to
PEACOCK DAHLIA FARMS, Berlin, N. J.

DECORATIVE PLANTS

Julius Roehrs Co., Rutherford, N. J.
Choice Flowering and Foliage Plants.
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High Grade Plants for Retail Florists.
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21 Houses of Easter Plants.
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A. L. Miller, Jamaica, N. Y.
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W. W. Edgar Co., Waverly, Mass.
The Best of Everything for Easter.
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5,000 Pans of TULIPS, HYACINTHS,
DAFFODILS, etc., for Easter, 30c. and 60c.
each; very fine, large choice bulbs, all
colors, short and stocky, in bud or bloom;
as good as can be grown, 4 to 7 bulbs of
Hyacinths, Tulips and Daffodils in 6-inch
pans; 7 Hyacinths, 14 Tulip bulbs, and 18
to 25 flowers in 8-inch pans. Best in Mas-
sachusetts. I. QUINT, 129 Walnut avenue,
Roxbury, Mass. Tel. Roxbury 51921. Order
Early.

FERNS

A. M. Davenport, Watertown, Mass.
Small Ferns for Dishea.
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H. H. Barrows & Son, Whitman, Mass.
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F. R. Pierson, Tarrytown, N. Y.
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Scott's Ferns, 2½ in. pots.....\$5.00 per 100
" 3 in. pots..... 8.00 "
Boston " 2½ in. pots..... 5.00 "
ANTON SCHULTHEIS, College Point, N. Y.

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Metropolitan Material Co., Brooklyn, N. Y.
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Greenhouse glass, lowest prices. JOHN-
STON GLASS CO., Hartford City, Ind.

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Turner Bros., Bladen, Neb.
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H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
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Metropolitan Material Co., Brooklyn, N. Y.
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GOLD FISH

Gold fish, aquarium plants, snails, cas-
tles, globes, aquarium, fish goods, nets,
etc., wholesale. FRANKLIN BARRETT,
Breeder, 4815 D St., Olney, Philadelphia,
Pa. Large breeding pairs for sale. Send
for price list.

GREENHOUSE BUILDING MATERIAL
King Construction Co., N. Tonawanda, N. Y.
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Lord & Burnham Co., New York City.
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Hammond Paint & Slug Shot Works,
Beacon, N. Y.

B. G. Pratt Co., New York City.
Spraying Results Guaranteed.

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A. M. Davenport, Watertown, Mass.
English Ivies.
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English Ivy—Rooted cuttings, 90c. per
100 prepaid. Extra strong from soli 6-8 in.
\$1.25. CHAS. FROST, Kenilworth, N. J.

LILY BULBS.

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
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W. & T. Smith Co., Geneva, N. Y.
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In writing to Advertisers kindly mention Horticulture

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The Nut-Grower, Waycross, Ga.
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Bound Brook, N. J.

Importers and Growers of Orchids.

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Lager & Hurrell, Summit, N. J.

HASSALL & CO., Orchid Growers and
Raisers, Southgate, London, England. Im-
mense stock of Cattleyas.

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Metropolitan Material Co., Brooklyn, N. Y.
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Hammond Paint & Slug Shot Works,
Beacon, N. Y.

PANSY PLANTS

200,000 large, stocky (Sept. transplanted),
field-grown blooming pansy plants, Henry
Mette's strain, all salable stock, satisfaction
guaranteed. \$1.25 per 100, \$11.50 per 1000.
Cash. Prompt shipping.

BRILL CELERY GARDENS,
KALAMAZOO, MICHIGAN.

PETUNIAS

R. Vincent, Jr. & Sons Co., White Marsh,
Md.

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PEONIES

Peonies. The world's greatest collection.
1200 sorts. Send for list. C. BETSCHER,
Canal Dover, O.

Complete manuals on the Peony, Iris and
Phlox. 25 cents each in stamps. C. S.
HARRISON, York, Nebraska.

PECKY CYPRESS BENCHES

Metropolitan Material Co., Brooklyn, N. Y.
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A. T. Stearns Lumber Co., Boston, Mass.
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PHLOX

CLEARING OUT SALE OF HARDY
PHLOX, IN VARIETIES

Including 2,000 F. G. von Larsburg, 3,000
Miss Lingard. Write for information and
prices. OLD TOWN NURSERIES, South
Natick, Mass.

PIPE AND FITTINGS.

Kroeschell Bros. Co., Chicago.
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ROSES, CANNAS AND SHRUBS.
THE CONARD & JONES COMPANY,
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R. Vincent, Jr. & Sons Co., White Marsh,
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SEEDS

Cartier's Tested Seeds.

Seeds with a Pedigree.

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Chas. Schwake & Co., New York City.

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Winter Flowering Sweet Pea Seed.

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W. E. Marshall & Co., New York City.

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S. D. Woodruff & Sons, New York City and
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Garden Seeds.

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Seeds, Bulbs, Implements.

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Fottler, Fisk, Rawson Co., Boston, Mass.
Seeds for the Florist

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SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. LAGER
& HURRELL, Summit, N. J.

STRAWBERRY PLANTS

Strawberry Plants, \$2.50 per 1000. Cata-
logue free. BASIL PERRY, Georgetown,
Delaware.

SWEET PEA SEED

Ant. C. Zvolanek, Lompoc, Calif.
Gold Medal of Honor Winter Orchid Sweet
Peas.

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TREE SURGERY

The Davey Tree Expert Co., 1302 Elm St.,
Kent, Ohio.

VASES

H. Bayersdorfer & Co., Philadelphia, Pa.
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VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co.

White Marsh, Md.

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COMET TOMATOES—Fine plants grown
from Roney's special forcing strain in
sterilized soil. Strong 2½ inch plants, \$2.50
per 100; \$22.50 per 1000. Cash please.
J. J. CLAYTON & SON, West Grove, Pa.

VENTILATING APPARATUS

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The John A. Evans Co., Richmond, Ind.

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WORKS, 264 Randolph St., Detroit, Mich.

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Hentz & Nash, 55 and 57 W. 26th St.
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Charles Millang, 55 and 57 West 26th St.
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W. P. Ford, 107 W. 28th St.
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J. K. Allen, 118 West 28th St.
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The S. S. Pennock-Meehan Co., 117 West
28th St.
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Traendly & Schenck, 436 6th Ave., between
26th and 27th Sts.
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Paul Meconi, 57 West 28th St.
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Riedel & Meyer, Inc., 49 West 28th St.
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George C. Siebrecht, 109 W. 28th St.
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John Young & Co., 53 West 28th St.
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M. C. Ford, 121 West 28th St.
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United Cut Flower Co., Inc., 111 W. 28th St.
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Guttman & Raynor, Inc., 101 W. 28th St.
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Gunther Bros., 110 West 28th St.
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Henry M. Robinson Co., 55-57 W. 28th St.
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W. R. Siebrecht, 114 West 28th St.
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Herman Weiss, 106 West 28th St.
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J. J. Coan, 115 West 28th St.
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Joseph S. Fenrich, 51 West 28th St.
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L. B. Nason, 116 West 28th St.
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Frank Millang, 55-57 West 26th St.
York City.
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The Beechwood Heights Nurseries, Thos.
Young, Jr., Prop., 57 West 28th St.
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Philadelphia

Leo. Niessen Co., 12th and Race Sts.
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Edward Reid, 1619-21 Ranstead St.
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The S. S. Pennock-Meehan Co., 1608-20
Ludlow St.
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WHOLESALE FLORISTS
Philadelphia—Continued

Philadelphia Wholesale Florist Exchange,
1615 Ranstead St.
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Richmond, Ind.

E. G. Hill Co.
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Rochester, N. Y.

George B. Hart, 24 Stone St.
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Washington

The S. S. Pennock-Meehan Co., 1216 H St.,
N. W.
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New Offers In This Issue**CUT FLOWERS FOR EASTER.**

Welch's, Boston, Mass.
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**DECORATIVE PLANTS AND CUT
FLOWERS FOR EASTER.**

Poehlmann Bros. Co., Chicago, Ill.
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EASTER LILIES.

S. S. Pennock-Meehan Co., Philadelphia Pa.
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EASTER PLANTS.

A. M. Davenport, Watertown, Mass.
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GREENHOUSE CONSTRUCTION.

S. Jacobs & Sons, Brooklyn, N. Y.
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GREENHOUSE GLASS.

Johnston Brokerage Co., Pittsburgh, Pa.
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GREENHOUSE SUPPLIES.

S. Jacobs & Sons, Brooklyn, N. Y.
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**HYBRID YELLOW POLYANTHUS
AND AURICULA PLANTS.**

William Sim, Cliftondale, Mass.
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IMP SOAP SPRAY.

Eastern Chemical Co., Boston, Mass.
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**LILIES AND HYBRID ROSES IN
POTS.**

W. W. Edgar Co., Waverley, Mass.
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NEW CROP ASPARAGUS SEED.

Henry F. Michell Co., Philadelphia, Pa.
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NURSERY STOCK.

New England Nurseries, Bedford, Mass.
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PINO-LYPTOL WEED KILLER.

Pino-Lyptol Chemical Co., New York.
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SWAS-TEEKA CANNAS.

Conard & Jones Co., West Grove, Pa.
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**THE BIG ADVANCE VENTILATING
MACHINE.**

Advance Co., Richmond, Ind.
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WHOLESALE FLORIST

Kennicott Bros. Co., Chicago.
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WHOLESALE FLORIST.

Chicago Flower Growers' Assn., Chicago.
For page see List of Advertisers.

WANTS, FOR SALE, ETC.

Advertisements in this column
one cent a word. Initials count
as words. Cash with order. All
correspondence addressed "Care
HORTICULTURE" should be sent
to 147 Summer St., Boston.

HELP WANTED

WANTED on gentleman's country place,
twenty miles from New York City, a thor-
oughly skilled and experienced greenhouse
man to take entire charge of rather large
greenhouses where a great variety of plants
and flowers are grown. He would be re-
sponsible for the other men working on
greenhouses and for the flowers outside,
but he would have nothing to do with the
remainder of grounds, &c. The owner
takes a personal interest and is willing to
pay a liberal salary to a man who will pro-
duce satisfactory results. State age, nation-
ality, full experience, references, size family
and salary expected. BOX 85, Mamaroneck,
New York.

WANTED—Greenhouse assistant, single.
Fifty dollars per month with board. Must
have good experience in Rose and Chrysan-
themum growing. Apply with reference to
GEO. HOLLIDAY, Great Hill, Marion, Mass.

FOR SALE

FOR SALE—Glass, 6x8 to 10x12, single
thick, \$1.85, double thick, \$2.85 per box.
METROPOLITAN MATERIAL CO., 1297-
1325 Flushing Ave., Brooklyn, N. Y.

FOR SALE—Two greenhouses, one 190 x
28, one 185 x 31; and dwelling house, six
rooms with bath, hot and cold water, steam
heat, half-acre of land. Address JOSEPH
FARRELL, 197 Broadway, Somerville, Mass.
Tel., Som. 1517-W.

MISCELLANEOUS**Plant Propagation, Greenhouse
and Nursery Practice**

By M. G. KAINS

We have had many inquiries from
time to time for a reliable and up-to-
date book on plant propagation, but
were always at a loss to find any pub-
lication that we could recommend. The
subject has been dealt with in fragmen-
tary manner only in books that have
come to our notice. So it is well that
this new work has been issued, especi-
ally as it is both comprehensive and
practical, and it should meet with a
ready sale among plantmen, nursery-
men and gardeners. There are nineteen
chapters covering in detail topics of
germination and longevity of seeds,
propagating by buds, layering, cuttings,
grafting, etc., fruit tree stocks, clones,
etc., and there are eight pages of con-
densed cultural instructions in tabu-
lated form, covering annuals and peren-
nials from seed, woody plants, ever-
greens, vines, bulbs and tubers, green-
house and house plants, ferns, palms,
water plants, orchids and cacti. The
illustrations are numerous, comprising
213 figures and half-tone plates. There
are 322 pages well bound and on heavy
paper, teeming with helpful information.
It is a book which no cultivator can
afford to do without. It is worth many
times its price. Copies can be supplied
from the office of HORTICULTURE at
publisher's price, \$1.50.

Horticulture Publishing Co.
147 SUMMER ST., BOSTON, MASS.

In writing to Advertisers kindly mention Horticulture

Est. 1765

Pot Makers for a
Century and a Half**HEWS****STRONG
RED
POROUS****POTS**

Inc. 1904

World's Largest
ManufacturersStandard, Azalea, Bulb, Orchid, Fern, Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.Writes for Catalogue
and Discounts**A. H. HEWS & CO., Inc., Cambridge, Mass.**Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.

If you need a boiler in a hurry telephone or telegraph at our expense

KROESCHELL BOILERS

SEND FOR CATALOG

Kroeschell Bros. Co., 466 W. Erie St., Chicago**DURING RECESS.****Boston Florists' Bowling League.**

The wind-up of the bowling season was celebrated by the members of the Boston Florists' Bowling League and their friends, to the number of 135, at a banquet on Thursday evening, March 22, at Young's Hotel. The handsome trophies which had been provided by friends in the trade were duly presented to the winning teams and individuals.

CLUB AND SOCIETY NOTES.

The next annual meeting of the Railway Gardening Association will be held August 7, 8 and 9 at Atlantic City, N. J. The following committee was appointed to arrange program and make hotel arrangements: J. K. Wingert, F. W. Vail and J. E. Smith.

The Park Institute of New England had a meeting in Hartford, Conn., on Wednesday, March 28, at the Hotel Hueblein. The subject of Consolidation of Parks and Playgrounds was discussed by G. A. Parker, supt. of parks of Hartford, Ernst Hermann, supt. of playgrounds, Newton, Mass., and others.

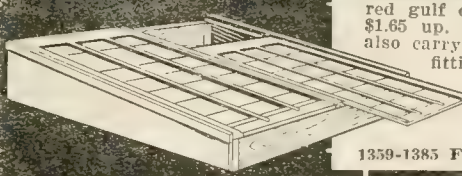
The next convention of the Canadian Horticultural Association will be held in Montreal on August 7-8-9, 1917. The executive committee had a meeting in Montreal, March 19, at which a complete program for the three days was laid out. A banquet at the Queens Hotel tendered by the Montreal members brought the session to a close.

The March meeting of the Rhode Island Horticultural Society was held in the Public Library, Providence, R. I., on Wednesday evening, March 21. Prof. S. C. Damon, of the Rhode Island State College Experiment Station, lectured on the *Cultivation of Potatoes*, paying particular attention to the cultivation of potatoes on small areas. There was also a discussion as to the proper classification of Chrysanthemums for exhibition purposes.

DREER'S "Riverton Special" Plant Tub

No.	Diam.	Ea.	Doz.	100
10	20 in.	\$1.60	\$17.50	\$145.00
20	18 in.	1.45	15.50	130.00
30	16 in.	1.10	12.25	100.00
40	14 in.	.70	7.75	60.00
50	12 in.	.50	5.50	45.00
60	10 in.	.40	4.40	35.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest lightest and cheapest. Painted green, with electric welded hoops. The four largest sizes have drop handles.

HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.**JACOB'S GREENHOUSE SUPPLIES**

Hotbed Frames from 80c. up; very best clear red gulf cypress. Glazed Hotbed Sash from \$1.65 up. Double light Sash up to \$4. We also carry glass, pecky cypress, boilers, pipe, fittings, putty, etc.—in fact everything for greenhouse construction. Get our prices today—they're right!

S. Jacobs & Sons

1359-1385 Flushing Ave. BROOKLYN, N. Y.

**GREENHOUSES BUILDING OR CON-
TEMPLATED.**

Morris, Ill.—T. Nelson, three houses.
Utica, N. Y.—Brant Bros., one house.
Ronks, Pa.—Elmer Weaver, rebuilding.
Logan City, U.—O. Sjostrom, one house.
New Haven, Ct.—Geo. E. Tufts, additions.
Beverly, Mass.—A. C. Burrage, Hale St., two houses.
Canton, O.—O. C. Barber, one Lord & Burnham house.
Dillsburg, Pa.—T. W. Kerr, two houses, each 21 x 100.
Wilmington, N. C.—Will Rehder, house 36 x 145 and one 80 x 130.
Newcastle, Ind.—F. J. Benthey, rebuilding, Moninger construction.
North Grafton, Mass.—Chas. E. Arthur of Brockton, looking for site.
Des Moines, Ia.—Des Moines Floral Company, range of Moninger houses.

PATENT GRANTED.

1,218,850. Treatment of Seeds. Henry Ernest Fry, Godmanstone, Dorchester, England.

**NON-KINK WOVEN HOSE**

In any length (one piece) with couplings, 15c. per foot. Unequalled at the price.

**Hose Valve, 70c.**

All brass except the hand wheel. Has a removable leather disk which is easily replaced to keep water tight. Stuffing box prevents leaks at stem.

METROPOLITAN MATERIAL CO.

1297-1325 Flushing Ave., Brooklyn, N. Y.

**STANDARD FLOWER
POTS**

If your greenhouses are within 500 miles of the Capitol, write us; we can save you money.

W. H. ERNEST
29th & M Sts., Washington, D. C.

The Florists Hail Association rate of insurance from Nov. 1st, 1916 to Nov. 1st, 1917 will be twenty cents per hundred square feet of single thick glass and eight cents per hundred square feet of double thick glass. For particulars address JOHN G. ESLEY, Sec., Saddle River, N. J.



The Big Advance Ventilating Machine

will operate those sash with ease.

You can't beat it. We handle all kinds of greenhouse fittings. Write for free catalog

ADVANCE CO.
Richmond, Indiana

MASTICA

For Greenhouse Glazing

USE IT NOW

F. O. PIERCE CO.
12 W. BROADWAY
NEW YORK

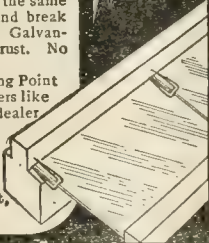
Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

Dreer's Peerless Glazing Points For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts. The Peerless Glazing Point is patented. No others like it. Order from your dealer, or direct from us.

1000, 75c. postpaid.
Samples free.
HENRY A. DREER,
714 Chestnut Street,
Philadelphia.

FULL
SIZE
No 2



PATENTS

Trademarks
and Copyrights

Difficult and rejected cases speedily solicited. No misleading inducements made to secure business. Over 30 years' active practice. Experienced, personal, conscientious service. Write for terms. Address,

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

GLASS CLOTH

A transparent waterproof fabric, guaranteed to generate about the same warmth and light as glazed sash, or money back. For all forcing purposes. Sample 3 x 6 feet, 50c. prepaid.

PLANT FORCERS

TURNER BROS., Bladen, Nebraska

JACOBS BUILT TO LAST GREENHOUSES

For three generations we have been builders of greenhouses. The vast experience accumulated in those years means trustworthy service to our customers. Prices of material have been advancing steadily—it looks as though present prices will not hold much longer. Protect yourself, by ordering now for future delivery. We also furnish greenhouse supplies at rock-bottom prices. Write us—today!

S. JACOBS & SONS
1359-1385 Flushing Ave. Brooklyn, N. Y.



CYPRESS GREENHOUSE STOCK

PECKY CYPRESS STOCK

HOT BED SASH

Ask for Circular D and Prices

THE A. T. STEARNS LUMBER COMPANY
NEPONSET, BOSTON

HOT BED **GLASS** GREENHOUSE
BEST BRANDS LOWEST PRICES
SHARP, PARTRIDGE & CO.

2263 Lumber Street, - - - - - CHICAGO

THE ONLY PERFECT

LIQUID PUTTY MACHINE

WILL LAST A LIFETIME
\$1.25 each

Adjustable—can and frame separate—easily cleaned. Frame all one piece, of malleable iron. More practical and more easily operated than any other.

SEAL TIGHT LIQUID PUTTY
\$1.35 per gallon

In 10 gallon lots. \$1.40 per single gallon.

METROPOLITAN MATERIAL CO.
1297-1325 Flushing Ave., BROOKLYN, N. Y.



Evans 20th Century Arm

Most up-to-date arm on the market. Proof that it is better than any other is that others tried to imitate it. Write for our 1916 catalog just out.

JOHN A. EVANS CO.
Richmond, Ind.

WE ARE SPECIALISTS IN GREENHOUSE GLASS PAINTS and PUTTY

IROQUOIS WHITE (Semi-Paste).
Most Perfect White Paint Made.

Be sure to get our estimates.

The **DWELLE-KAISER Co.**

241 Elm St., BUFFALO, N. Y.

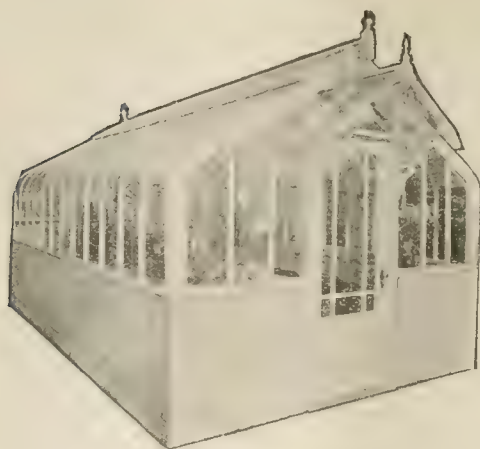
Use the only shading E. A. LIPPMAN

6 HIGH STREET

Morristown, New Jersey

Send for Booklets

When writing Advertisers kindly mention Horticulture



Metropolitan Exhibit at last year's show

Service

Metropolitan Greenhouse Service

the utmost in efficiency
and — results

No matter what the initial cost of a greenhouse amounts to, it is in every instance a good investment, provided the revenue results are proportionate, and the cost of maintenance remains at a minimum. But no matter how little the initial cost, it is far too much for unsatisfactory returns, with constantly increasing upkeep and repair expenses.

Therefore, as the quality of materials used in the construction of all greenhouses is, after all, a matter of contract specifications, this organization bases its claim upon the high character of its labor and its constant endeavor to render a service which is at all times the utmost in efficiency, economy and results.

The reliability of this organization has been conclusively proven by the fact that it has not merely sustained, but heightened its prestige for so long a period.

PUT YOUR GREENHOUSE PROBLEMS UP TO US

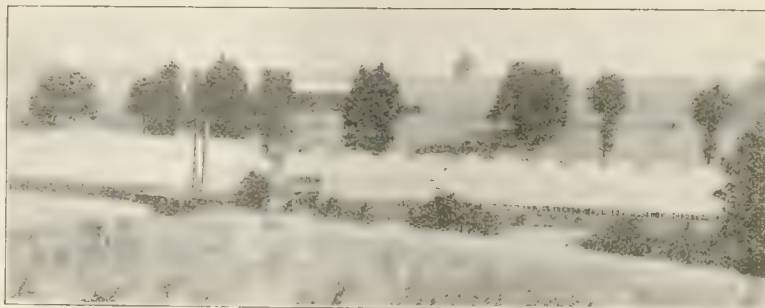
We go anywhere in the U. S. to submit plans and prices.

Metropolitan Material Co.

Patented Greenhouses

1297-1325 Flushing Ave., Brooklyn, N. Y.

IMPROVEMENTS



ESTABLISHMENT OF WM. ESPY & SONS, BROOKVILLE, PA.

Anyone will admit that the greenhouses of today are a big improvement over those of twenty years ago. We make improvements constantly, but never any until we have tested them thoroughly. Read what our customers say:

BROOKVILLE, PA., February 21, 1917.

John C. Moninger Co., New York, N. Y.

Gentlemen: We are pleased to inform you that we have found Moninger's houses to be satisfactory in every way. We have built five houses and not one stick of any but your material.

Further, you people are progressive enough to make the small improvements so essential to the florists, and while the first lot of material was excellent, every additional lot looks better.

Wishing you a very prosperous and successful future, we are

Yours very truly,

(Signed) C. W. ESPY & SONS.

JOHN C. MONINGER CO.

CHICAGO
922 Blackhawk Street

NEW YORK
812 Marbridge Bldg.

CINCINNATI
2314 Union Central Bldg.

EVERYTHING FOR THE GREENHOUSE.

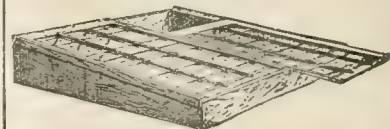
GLASS

AND
HOT-BED SASHES

Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.

215-217 Havemeyer St., Brooklyn, N. Y.



HOTBED SASH at 80c. each

Made of best grade Gulf cypress.

Glazed Hotbed Sash from \$1.65 up.

Double Light Sash up to \$4.00.

We carry a large stock of all sizes.

Write us for estimate

METROPOLITAN MATERIAL CO.

1297-1325 Flushing Ave., BROOKLYN, N. Y.

King GREENHOUSES
SEND FOR BOOKLET

King Construction Co.
NORTH TONAWANDA, N. Y.

FOLEY GREENHOUSES

The reason why
FOLEY
GREENHOUSES
are so popular is because they so successfully stand the test which efficiency exacts in the way of service and construction.



We design and manufacture the house which will best suit your needs
Put your building problems up to us
We will gladly give your inquiries prompt and careful attention.

Built for the Ohio State University, Columbus, Ohio.

THE FOLEY GREENHOUSE MANUFACTURING CO.

Designers—Builders—Heating Engineers

3275 West 31st Street, CHICAGO, ILL.

HIGH-GRADE

Hand-made Greenhouse Glass

We are the largest distributors of **Hand-made Greenhouse Glass** in the United States.

Factories located in Pennsylvania, West Virginia, Ohio, Indiana.

Careful selection and packing. Uniform quality guaranteed. Shipping facilities unequalled.

Our Specialty: **QUALITY** and **SERVICE**.

All reputable dealers handle our brands. Send us your inquiries.

JOHNSTON BROKERAGE COMPANY

2106 First National Bank Building, PITTSBURGH, PA.

Eastern Representative:

E. H. FLOOD, Room 807, 309 Broadway, New York, N. Y.
Franklin Bank Bldg., Philadelphia, Pa.

Western Representative:

H. A. COLE, 323 Manhattan Building, Chicago, Ill.

Kansas City Office:

P. E. CUNNINGHAM, Secretary-Treasurer,
1019 Commerce Bldg., Kansas City, Mo.

Dallas Office:

A. D. MARTIN, Sumpter Bldg., Dallas, Texas.



Other Flower Show Echoes Or What Was Heard Over a Lunch Table Last Week at the Biltmore

THERE were six of us: Mr. Bohannon, of Bohannon Fl. Co., Chicago; Mr. Brown, of J. M. Gasser Co., Cleveland; Mr. Philip Breitmeyer, of Detroit; Mr. Max Schling, New York; Mr. Arthur Langhaus, of Wheeling, W. Va., and our company representative.

We were there as Max Schling's guests to talk over the question of forming a definite organization of one or two retail florists from each state, with the idea of doing some national advertising to broaden the sale of flowers. Also with the aim of an intimate co-operative service between members. Already Ads. have been issued reaching over six million readers.

After the organization business was over, the talk turned towards business methods.

Mr. Bohannon, of Chicago, said that with every basket of flowers they sent out, a card was enclosed stating that "if the flowers were not fresh and entirely satisfactory when received, to immediately let them know, and a fresh lot would promptly be sent."

Mr. Brown, of the J. M. Gasser Co., Cleveland, said he didn't like that word "if." It at once put a person in a needlessly critical frame of mind.

Their method was to enclose a card saying: "These flowers are fresh. If not satisfactory, let us know at once."

Mr. Breitmeyer then spoke up in his quiet sunny way, carrying indisputable conviction with it: "I don't care what you print on your cards boys,—the thing is to make good, and do it promptly and cheerfully."

Mr. Schling mentioned that when he was asked to re-fill a basket that was not fresh and clean; or the color scheme out of all harmony with the flowers; he first had it understood that his name card would not accompany it. Said he could not afford to have his reputation risked.

Right then and there, I would like to have spoken up and said that for exactly the same reason Lord & Burnham often refuse to build certain houses, certain ways, for possible customers. We simply cannot afford to build houses we know are not practical. Neither will we lower quality, to cut down costs to meet competition.

The only way we meet competition, is in giving a man a better house for his money.

If you want to talk over that kind of a house, say when and where, and we'll be there.

Lord & Burnham Co.

Builders of Greenhouses and Conservatories

SALES OFFICES:

NEW YORK
42nd Street Bldg.

BOSTON
Tremont Bldg.

PHILADELPHIA
Widener Bldg.

CHICAGO
Continental & Commercial Bank Bldg.

ROCHESTER
Granite Bldg.

CLEVELAND
Swetland Bldg.

DETROIT, Penobscot Bldg.

TORONTO, Royal Bank Bldg.

MONTREAL, Transportation Bldg.

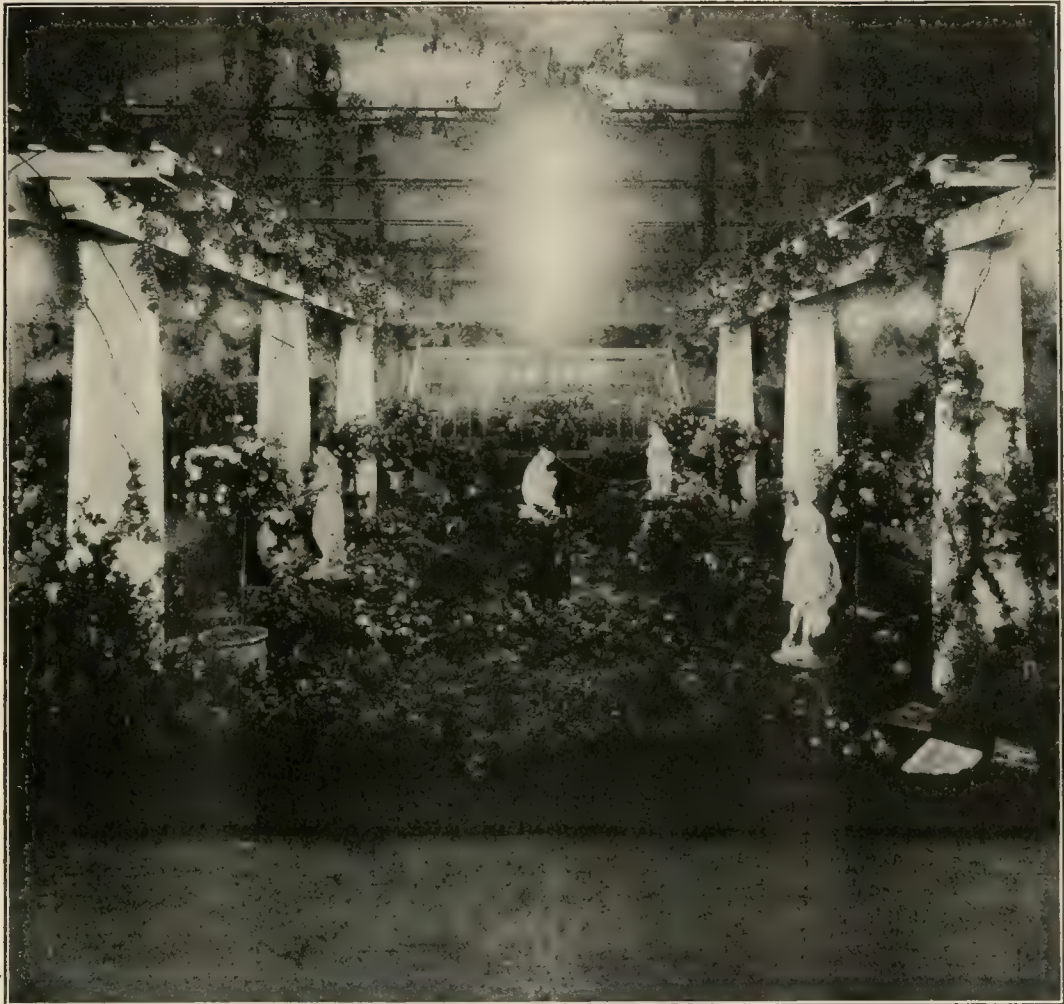
FACTORIES: Irvington, N. Y.

Des Plaines, Ill.

St. Catharines, Canada.

Vol. XXV
No. 14
APRIL 7
1917

HORTICULTURE



Philadelphia Rose Festival

Central Group with Pergolas, Fountain and Statuary, Arranged by J. J. Habermehl's Sons.

Published Every Saturday at 147 Summer Street, Boston, Mass.
Subscription \$1.00



COLDWELL WALK TYPE MOTOR MOWER

The Coldwell Walk-Type Motor Mower cuts the grass and rolls the lawn. Rapid, thorough, tireless—it consumes little fuel, cuts an acre an hour.

Does all the work of cutting the lawn, requiring nothing but guidance.

A sturdy little Motor Mower of the *walk-type* will negotiate any grade that a horse mower would be used on.

It is made in three sizes—30", 35" and 40" cut, with rolling weights ranging from 900 to 1100 pounds.

The Coldwell Ride-Type Model J is the "clipper-built," long-distance machine. It is equipped with latest improved four-cylinder Continental Motor, Mayo Radiator, etc. Will cut two to two and one-half acres per hour. The *real* machine for making and keeping a healthy, green, beautiful lawn.

1917 Coldwell Threesome with one man and one horse will do the work of any three individual mowers. Cuts a swath 87 inches wide. *This type* of mower is particularly suited to cutting on dry, settled ground where rolling and fine cutting is a secondary consideration. Write for descriptive catalogues.

COLDWELL LAWN MOWER COMPANY

Factory and Office at Newburgh, New York
Chicago Office, 62 East Lake St., Chicago, Ill.

CERANIUMS

ORNELLA, E. H. TREGO, S. A. NUTT, COL. THOMAS, etc., also white sorts, at \$2.00 per 100, \$18.50 per 1000 for 2-in. and \$3.00 per 100, \$25.00 per 1000 for 3-in. SINGLE GERANIUMS in a good assortment, also SCENTED GERANIUMS, including Apple, Rose, Nutmeg, etc., at \$2.00 per 100 for 2-in, \$3.00 per 100 for 3-in. MARYLAND GERANIUM \$4.00 per 100, \$35.00 per 1000. We see no reason for recalling anything we have ever claimed for Maryland.

MISCELLANEOUS PLANTS

2-in., \$2.00 per 100, \$18.50 per 1000; 3-in., \$3.00 per 100, \$25.00 per 1000. ACHYR-ANTHES, ALYSSUM, Giant and Dwarf, ALTERNANTHERAS, 10 varieties. AGERATUM, 6 varieties. BEGONIAS, Luminosa, Vernon, Erfordii, Pfitzer's Triumph, Gracilis Rose. COLEUS, 10 varieties. CUPHEA. HARDY ENGLISH IVY. HELIOTROPE. LEMON VERBENAS. LANTANAS, 10 varieties. MOONVINES, White and Blue. PARLOR IVY. PETUNIAS, Double and fringed, Mixed Colors. POMPON CHRYSANTHEMUMS, large assortment. SALVIA, Bonfire and Zurich. SWAINSONA, White. SCENTED GERANIUMS.

ABUTILON SAVITZII, 2-in., \$3.00 per 100; 3-in., \$4.00 per 100.

ALGONQUIN, a true deep blue single PETUNIA, fills a long felt want for something blue for window boxes, vases, etc., propagated by cuttings, \$3.00 per 100.

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NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toil, we ought to blame the culture, not the soil."—Pope.

Gardenias

Keep young stock growing right along. The plants do better when plunged in ashes on some bench well up to the glass where somewhat high degrees of heat combined with a rather close moist atmosphere can be steadily maintained. On all bright days syringe twice a day, in the morning and right after dinner. Keep the soil in the pots moist, but not soaked. You can keep shifting until they are in 4 or 5-inch pots which makes a good size to be planted out on the benches. A good compost to use is fibrous loam four parts, leaf mold and cow manure one part each and a good dash of sharp sand. Give ventilation to keep the atmosphere right. They do best in a temperature of from 65 to 70 degrees at night and from 15 to 20 degrees more with sunshine.

Nephrolepis

There are few ferns so easy of propagation as the nephrolepis, and they still enjoy a marked popularity. Those who are thinking of raising a stock of young nephrolepis for next year can from now up to July start to propagate. First, see that they have the drainage perfect so that the bench will let the water through freely. Then put in some light, sandy soil and plant the ferns out and you will get an abundance of runners that will root and lift without losing a single frond. A light shading and frequent sprinkling and a moderate degree of mixture at their roots is about all that is needed in the way of care through the summer. As they become large enough pot off and plunge pots in another bench.

Odontoglossums

Give the odontoglossums a judicious syringing overhead once a day and always allow a free ventilation. The crispum section requires quite a supply of water during all seasons, but the grande section does not need so much water at the roots, but should be allowed to dry out frequently. Now that the hot weather will soon be with us culture becomes very difficult. In their native habitation a maximum of 65 degrees is very rarely exceeded, but cultivators are now having much better success than a decade ago for they have broken away from the old way of keeping them in a north house from start to finish. They should be moved before the arrival of warm nights to a house of northern exposure that has rolling shades elevated about 20 inches above the glass as this admits an abundance of air, which helps to keep the house cool.

Poinsettias

Do not wait too long before overhauling the poinsettias. Old plants that have been resting since the new year can now be started, the stems shortened back and repotted in as small pots as the roots will permit. Remove all stock plants to a well-lighted bench where there is a temperature of about 65 degrees at night.

When cutting in, you can use the old wood cuttings, by placing in a warm frame and keeping the temperature from 65 to 70 degrees. In about three or four weeks they will be rooted. Pot them into 3-inch pots, using a good loam to which has been added one-fourth of rotten manure. Those propagated in July and August are fine for making up pans but the earlier ones will give the finest cuttings. Cuttings can be rooted at any time from now until the middle of August.

Ramblers for Easter 1918

Now is the right time to start some two-year-old plants. They can be potted in 6, 7 or 8-inch pots. Use fibrous soil three parts, and one part well-decayed cow manure, adding about an 8-inch potful of bone meal to each wheelbarrow load. Pot firmly and give a good watering. They should be cut back quite hard, which will make them break into five or six strong growths. Give them a cool bench where they can have plenty of light and ventilation. When they have made enough of growth to indicate the strongest canes, leave five or six of the best, rubbing off all the other ones. Syringe on all good days, for if this is neglected red spider will very soon assert itself. Keep them under glass until July during which time they will want careful watering, syringing, ventilating and fumigation.

Primulas

These plants love plenty of fresh air, so whenever it is possible see that they have it. In six or eight weeks they can be potted into 2-inch pots using fibrous loam four parts, well rotted cow manure and leaf-mold one part each. Give them a light shelf or bench where the temperature will not run over 50 degrees at night, allowing it to rise with sunshine about 15 degrees more. It is still seasonable to make sowing of primulas up to the first of May. These will develop into nice sized plants from December on. When the earliest sown primulas are big enough they should not be kept in flats but potted up before they begin to grow. A good compost is equal parts of new soil and leaf-mold with a little well decayed cow manure mixed through it. They will want some shade during the middle of the day. They should have a light syringing twice a day on all bright days.

Reminders

Keep young ferns moving and never let them get hard in the flats or pots.

Watch the seedling begonias closely and give them more room directly as they need it.

Fumigate at the first sign of green fly on the pelargoniums or the plants will soon be overrun.

Leave a little air on at night for a short time after mulching rose or carnation benches with fresh manure.

Watch the firing very carefully. Overheating the pipes in the morning not only wastes fuel but is productive of weak growth and insects.

Next Week:—Begonias for the Holidays; Carnations; Care of Seedlings; Chrysanthemums; Cyclamen; Reminders.

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Consider carefully We see in the widespread campaign for the utilization of a much larger area of land for the production of food crops, big business for the seed trade, a boom for the family table, and an effective blow against the H. C. L. But we see no great necessity yet for the American florist to abandon his accustomed cultures and substitute food

crops as has been found desirable in England, where the members of the wholesale florists' trade have pledged themselves "to devote at least 50 per cent of their open ground to food production, to grow only sufficient flowers and plants to keep the florists' trade alive and preserve the stocks which will be necessary for immediate development at the close of the war." Such a course might prove profitable here as a business proposition but that is open to doubt, at the present time.

A matchless rose

The Hadley rose, as it finds its bearings in various sections of the country, is demonstrating qualities which make it the rose wonder of the day. Born and brought up in Massachusetts, it has rapidly forged to the front in New York until it ranked with the American Beauty in market value and the flowers exhibited at the show by A. S. Burns, Jr. swept everything else before them. We thought they had then reached their limit but along comes Joseph Heacock in Philadelphia with blooms of marvelous size and quality which are declared by those who were privileged to see both to have distinctly outdistanced New York's presumably invincible achievements. What next? The two growers above mentioned have not yet to our knowledge faced one another for a test of supremacy. It will be a battle royal when they do. And there are others.

The June shows

With the several special flower shows now planned for next June there will be afforded a good test of the possibilities in public exhibitions at a season of the year not hitherto regarded with much confidence as to financial results. The ardent enthusiasm in horticulture recently developed in "society" circles in this country, due in part to the discontinuance of European travel, has done much to open up a new relationship between the public and the flower show as a standard institution and, as impressively demonstrated in the recent March exhibitions, turned a new light on these enterprises from the standpoint of the big daily newspapers. The open air flower show to be given in Boston under the auspices of the Massachusetts Horticultural Society is a decided innovation as planned and will be watched with countrywide interest. It will be interesting, too, to note the outcome of the Pittsburgh venture which also is scheduled for June but on different lines from the Boston proposition.

A hint to plant growers

In the progress of events as they now shape up one can find but very little to justify confidence in any nearby restoration of former established conditions as to horticultural importations from abroad and it seems expedient that the trade should take cognizance of the opportunity thus presented for a larger investment and keener industry in the production of home-grown ornamental material. We refer here not alone or directly to the much discussed possibilities in the production in this country of azaleas and the many other goods for which we have heretofore depended upon foreign sources but to such things as primroses, cyclamens, ericas and a host of other plants which we are already accustomed to produce at home and for which in the absence of azaleas, etc., the sale at Easter or otherwise should henceforth be largely increased. There is every encouragement in the situation for gardeners to keep on the lookout and to try out a much greater variety of forcing subjects than are now used. The field untouched as yet is practically limitless.

The Peony--Its Marvelous Advance

Twenty years ago it was hard to sell a peony. Now the call for them is yearly on the increase. Not long ago one nursery had to turn down a call for 35,000 from one firm. Many leading growers write me that they are nearly sold out and when they come to renew their plants they find peonies, like everything else, have gone up.

New and rare varieties are being developed. France has given us superb ones. A Mr. Ruff, a real estate man in St. Paul, Minn., had an ideal sheltered place with rich sandy loam, and having ample means he secured a large collection of as fine ones as money could buy. They multiplied so fast that he soon had quite a quantity. I used frequently to visit him. "Why don't you sell them," I asked. He took the hint and got out a circular. Progressive growers found he had what they Ruff had his foreign favorites and the Brands showed wanted. Some parties even went out from Chicago to see them in bloom and he has sold thousands of dollars' worth. He spares no money in selecting them, nor do his customers spare in buying. Our American growers seem to keep up with the French in originating new sorts. We all know what Richardson of Boston accomplished. Rosenfield has given us some fine ones, and he has now twenty acres of peonies growing near Omaha.

Years ago I visited my dear old friend, T. C. Thurlow of West Newbury, Mass. How he did love flowers; their beauty entered into his very life and he was a man of the sweetest soul I ever knew. He had thousands of seedling peonies in full bloom. The field was "like a sea of glory." But he was exacting in his taste and 999 had to go on the rubbish pile for every one saved. The sons are now putting one on the market called "Cherry Hill" at \$30 a root.

At the summer meeting of the Minnesota Horticultural Society there was the finest display of peonies I ever saw. The glorious Junes of our northern states give ample compensation for the rigors of their winters. Ruff had his foreign favorites and the Brands showed their new creations which did not seem a whit behind. They had been quietly and patiently at work for twenty years. Their gardens have been a mecca for lovers of the beautiful. There was Mary Brand, which is probably the finest and largest red of all. Martha Bulloch is a radiant pink. Elizabeth Barret Browning is an immense glistening white. Richard Carvell is a deep red and fragrant peony which will bloom with Eduli's Superba or Decoration Day in our latitude. Prince of Darkness and Midnight are dark red.

Prices of extra fine ones seem high, but it is a question of thoroughbreds or scrubs. Peonies double every year or two and so cut down the initial cost in a short time. It costs no more to grow the thoroughbreds than it does the scrubs, so it always pays to have the best.

There are Eldorados and Golcondas in the floral as well as in the mineral world. Diamonds do not grow but your flowers do. You have read of the famous Persian garden of gems, 400 feet by 90—gems so arranged as to imitate flowers—a tribute of the mineral world to the beauty of the floral world. And the flowers of those days bore no comparison with the flowers of our gardens. So for weeks we can outrival that marvelous garden of gems, and they will be our own. And beside their superlative beauty, billows of fragrance will float over and around and we can breathe their sweet breath while we feast our souls on their splendor.

York, Nebr.

C. S. Harrison

Centaurea



CENTAUREA MONTANA ROSEA.

The popularity of the genuine cornflower is world-wide. We all love the clear bright blue of the annual *Centaurea cyanus*. When successful in growing the beautiful *Centaurea imperialis* to perfection I believe we have reason to feel proud. The white-leaved "Dusty Millers," *Centaurea candidissima* and *C. gymnocarpa* are standard bedding plants in use for ages and our stately tall growing native *Centaurea americana*, the "Basket Flower," we have learned to treasure as an effective border plant and, in a cut state, as a splendid material for domestic indoor decoration. But it is not my intention to dwell at any length on the annual class today. What I have in mind at present are the various garden species of hardy herbaceous cornflowers more or less known as valuable subjects for the mixed perennial border. As a rule we seldom find them free enough for a real floral mass-effect, but as most of them bloom during July and August and their flowers not only prove excellent for cutting but also perceptibly add in the total midsummer display of our gardens, it is evident that they merit general attention. Thriving best fully exposed to the sun in a rather light garden soil with ample drainage, perfect development depends entirely on sufficient watering. Unsatisfactory showing is usually due to lack of the necessary irrigation during hot and dry weather.

In regard to species and varieties I begin with the early blooming European form *Centaurea montana*. Attaining 2 feet in height, the original flowers blue, *montana alba*, white, and *montana rosea*, the subject of our illustration and by far the best of the three, produces large flowers of a beautiful rosy-red color admirably adapted for design work. *Centaurea dealbata*, a species from Asia Minor, and *C. rigidifolia* are the most desirable rose-pink colored for midsummer displays, while *Centaurea macrocephala* and the tall very decorative *C. ruthenica* represent the most conspicuous of the yellow types. The latter is distinguished by loosely built feathery flowers of a beautiful light sulphur, born on tall slender stems averaging 4 feet in height.

Perennial centaureas may be raised from seed sown in cold frames early in spring or propagated by divisions of old plants. For winter protection they require a light covering of manure, straw or leaves.

Glenside, Pa.

Richard Rothe

CHRYSANTHEMUM CLASSIFICATION

Editor HORTICULTURE:

Dear Sir:—At a meeting of the R. I. Horticultural Society there was a heated discussion regarding certain classifications of chrysanthemums as used in the premium list. The premium list reads as follows:

"Class 399, chrysanthemums. Best three vases three distinct Japanese varieties, ten blooms to a vase."

"Class 400, chrysanthemums. Best three vases of three distinct incurved varieties, ten blooms to a vase."

The discussion was as follows: "A" maintained that Japanese incurved and reflex varieties were distinct forms just as much so as cactus, peony and show dahlias are distinct forms. "A" also maintained that Japanese varieties should not compete in the same class with incurved varieties or reflex varieties except, of course, in general collections of flowers.

"B" maintained that all chrysanthemums were Japanese varieties and that the term Japanese was misapplied in the premium list. He held that in class 399 incurved or reflex could be exhibited as they were all Japanese varieties. "A" maintained that "B" was giving the word Japanese in this connection an entirely wrong meaning. "A" maintained that in exhibitions the word Japanese referred to a class of blooms in chrysanthemums just as much as peony flowers referred to a class of blooms in dahlias and that the term as used in the premium list bore no relation to the origin of the plants.

Will you please give me the best decision on these points that you can? I shall esteem it a favor also if you will refer this discussion to some of your most interested exhibitors and get an expression of opinion from them.

Could you give me also the names of three distinct popular varieties of Japanese chrysanthemums, three distinct varieties of incurved, and three distinct varieties of reflex, and the names of any other varieties which represent a distinct class of flower?

We had another heated discussion which we would like you to settle for us at the same time, if possible. The premium list reads as follows:

"Class 208, chrysanthemums, cut flowers. Twelve white in one vase."

There were other classes following this, calling for twelve pink, twelve yellow, and twelve of any other color, etc. The discussion is on the following point. "A" maintained that in class 208, which calls for twelve white, an exhibitor could enter three vases each containing a distinct white variety for this prize. "B" maintained that no exhibitor could enter more than one exhibit for the same prize. "B" maintained that if an exhibitor was allowed to enter more than one exhibit for the same prize it would be unfair to the other exhibitors who had entered only

one. "A" maintained that if an exhibitor had raised three varieties of white chrysanthemums and that if he was unable to decide which was the best for exhibition purposes, he had a right to enter all three and let the judge decide which was the best. "B" maintained that this was very unusual and wrong and that if "A" wished to get the judge's opinion, he could enter one variety in the class and bring the other two varieties for exhibition purposes but not for competition and then get the judge's opinion on them as an exhibition flower.

Yours very truly,
E. K. THOMAS, Secy.

Editor of HORTICULTURE:

Dear Sir:—I am in receipt of the communication addressed to you from the Secretary of Rhode Island Horticulture Society in regard to certain chrysanthemum classifications.

To get a clear perspective of this matter one should go back to the early days of the chrysanthemum as an exhibition flower. The early forms were known as Chinese and pompon varieties but the latter need not be considered in connection with the present matter.

The Chinese varieties were so called from the fact that the plant was first introduced into Europe from China and the flowers were characterized by comparatively short petals and smooth and even form. As they developed under cultivation two distinct types appeared, one with petals all turning inward and exposing the under surface to view and the other with the petals all turning backward and downward, thereby exposing only the upper surface. These were called the incurved and reflexed Chinese varieties.

After the opening up of Japan, varieties of the same species began coming from there, but these were characterized by a multitude of odd forms, mostly with petals much longer in proportion than those produced by the old Chinese forms. But here again many of the varieties divided themselves up in the same two classes as the earlier Chinese varieties did, but as the flowers were much more artistic in build they soon drove the Chinese varieties to the wall and now it is hard to find a plant of the old Chinese kinds. The terms incurved and reflexed still survive but as there has been so much intermixing of the Chinese and Japanese types in raising new varieties it is impossible to say where the Chinese leave off and the Japanese begin and this coupled with the fact that the pure Chinese varieties are no longer grown would make the use of the term "Japanese" practically superfluous if it were not for another fact that there are certain varieties which can be classed as neither incurved nor reflexed, so must be thrown into a class which will admit any form that is not of the old Chinese character. So looking at it in this way we would have three classes, incurved, reflexed and

Japanese, for want of a better term. As a type of the incurved flower of today I would give Mrs. Jerome Jones or Merza and of the reflexed, John Shrimpton. Any flowers which do not conform to these standards would fall into the miscellaneous Japanese class. I say "Japanese" because all our large varieties today partake more of the original Japanese characteristics than of any other.

In selecting varieties for exhibition in the classes for the different types, individual flowers should be selected which adhere as closely as possible to the type of the class, without reference to names, for it is well known among growers that many varieties will sometimes develop an incurved flower from one kind of bud and a reflexed flower from a different bud. So looking at the matter in this way class 399 referred to in the letter could include any variety which showed any characteristics of the original Japanese varieties, and class 400 should be confined to such varieties as come the nearest to the accepted incurved type of today. Strictly speaking the class could include all incurved varieties of either the Chinese or Japanese types.

In regard to class 208, the matter rests entirely with the rules of the Society. In the Massachusetts Horticultural Society an exhibitor may put up as many exhibits in competition as there are prizes offered. That is, if two prizes are offered he may have two entries, and so on, according to the numbers of prizes offered for that particular class.

A. H. FEWKES.
Newton Highlands, Mass.

ASSORTED SPRINGTIMES

(Ted Robinson, in Cleveland Plain Dealer.)
Our morning's milk is full of icy splinters,
But the robins are a-hopping on the green;
This month is full of disconcerting Winters
But we love the little Springtime, in between!
So as often as the weather seems propitious
In the soggy, boggy woods we start to roam,
And we find the vernal vision quite delicious,
Till the sneezy, breezy blizzard drives us home!

There is something far superior to the senses
In determining the time for buds to blow;
I am sure that *Sanguinaria canadensis*
Is a-blooming over there beneath the snow;
And the sleet is sharp as tiny mites of mica,
And the wind is keen as memories of sin—
But I'm certain that *Claytonia virginica*
Only needs a little courage to begin!

The hepaticas are hardly hesitating—
They are moving bravely upward through the mud!
And unviolated violets are waiting
Just a word to burst in beauty from the bud!
In the Wintry woods there's surely something doing,
For as plainly as a flower ever spoke,
I have heard a lot of pussy willows mewing,
And it's almost time for crocuses to croak!

—Boston Globe.

CLUBS AND SOCIETIES

LANCASTER COUNTY FLORISTS' ASSOCIATION.

Having a notification from the Reading florists that they were coming over to visit us, we had been hoping for good weather and good roads, but dame nature would not have it that way and instead of the delightful automobile trips we had planned we were reduced to trolley service. Messrs. J. Stanley Giles, John Downing, J. C. Bauder, Fulmer Lauck, Layton Butts, Frederick Frank, Alfred Loundon, Lee P. Arnold were the visitors. After lunch they were taken to the M. J. Brinton establishment in Christiana with some eighteen Lancasterians as company. Mr. Brinton grows some 50,000 Spanish iris, about a quarter of a million lily bulbs and other stock in proportion. A batch of 3,000 gladioli produced less than 100 spikes. They were cold storage stock and the small percentage of bloom is ascribed to this fact. They did, however, make excellent bulbs, but the production of bulbs in a greenhouse is an expensive proposition. Mr. Brinton in addition to his bulb houses has a block of Lord & Burnham houses devoted to carnations. We had to jump from Christiana to Chas. M. Weaver's at Ronks, where sweet peas were to be seen in houses that made you tired to walk from end to end, the houses being planted at different times, coming along in succession. A house of mignonette is now being torn out to make room for early asters. At Elmer Weaver's we found a fine lot of seedling carnations. One of their carnation houses is not a carnation house but is a sweet pea house with carnations between; the carnations did fairly well before the peas reached their six-foot height, but are now beginning to suffer from the shade.

Getting back to Lancaster a hurried trip was made to the B. F. Barr greenhouses. The new packing and warehouse building came in for its share of approval.

After dinner we repaired to the Chamber of Commerce rooms where the regular meeting was held. Thomas Fries gave a very instructive talk on bulbs and other stock for Easter. Albert M. Herr gave a resume of the proceedings of the Philadelphia Club at their express meeting. The question of coal prices was brought up and there is not anyone who has contracted at a less price than twice what he paid for this season's supply—many paying even more than double. When you tell the coal man, he says, "I'm sorry, but this is the price for next

Meetings Next Week

Monday, April 9.

Cleveland Florists' Club Hollenden Hotel, Cleveland, Ohio.
Gardeners' and Florists' Club of Baltimore, Florists' Exchange Hall, Baltimore, Md.

New York Florists' Club' Grand Opera House, New York City.
Rochester Florists' Association, 95 Main St., East Rochester, N. Y.

Tuesday, April 10.

Newport Horticultural Society, Newport, R. I.

Wednesday, April 11.

Cincinnati Florists' Society, Jabez Elliott Flower Market, Cincinnati, O.
Dutchess County Horticultural Society, Fallkill Bldg., Poughkeepsie, N. Y.

Lenox Horticultural Society, Lenox, Mass.

Morris County Florists' and Gardeners' Society, Madison, N. J.

Nassau County Horticultural Society, Pembroke Hall, Glen Cove, N. Y.

Thursday, April 12.

Menlo Park Horticultural Society, Menlo Park, Calif.

New London Horticultural Society, Municipal Bldg., New London, Conn.

Friday, April 13.

Connecticut Horticultural Society, County Building, Hartford, Conn.

Westchester and Fairfield Horticultural Society, Doran's Hall, Greenwich, Conn.

Saturday, April 14.

Dobbs Ferry Gardeners' Association, Dobbs Ferry, N. Y.

season." You are also sorry, but you sign your contract all the same. Why not say to your customer, "I'm sorry, but I must have these extra few cents for my plants this season in order to meet my own expenses." If they really want the plant or flowers they will readily pay the slight increase the same as they are doing all along the line, and if they do not, you are better off not to sell at a price that represents actual loss.

George F. Leonard of the Kentucky Tobacco Product Co. gave a very interesting talk on nicotine products. For the next meeting J. Wade Galey will give us a paper on carnations.

ALBERT M. HERR.

The regular monthly meeting of the Mount Kisco, (N. Y.) Horticultural Society was held in Firemen's Hall, on March 13th. Business was gone over quickly owing to our having a lecture on Poultry Raising by Mr. Sewell, of Dellwood Farm. Mr. Connolly had some fine exhibits of carnations, sweet peas, lily of the valley and mushrooms. Doors were opened at 8 P. M. for the public and there was a fine attendance. Mr. Sewell gave an able and instructive address. At our next meeting on April 9th James Scott, Elmsford Nurseries, will give a talk on Out Door Roses.

A. G. ROSS, Secy.

NEW YORK FEDERATION OF HORTICULTURAL SOCIETIES AND FLORAL CLUBS.

A meeting of the New York Federation of Horticultural Societies and Floral Clubs was held at 101 Park Avenue, New York City, Monday, March 19th, at four o'clock. President F. R. Pierson presided at the meeting. The following organizations were represented by delegates: New York Florists' Club, New York Horticultural Society, New York and New Jersey Plant Growers' Association, Albany Horticultural Society, Rochester Florists' Club, Buffalo Florists' Club, Tarrytown Horticultural Society, Syracuse Florists' Association.

President F. R. Pierson reported regarding a joint meeting of delegates from the Federation and from the New York Vegetable Growers' Association, which was held in Albany on February 22nd. This joint committee had a conference with the Lieutenant-Governor, the Chairman of the Finance Committee and the Chairman of the Ways and Means Committee regarding an appropriation for a Horticultural Building at the New York State Fair Grounds. President Pierson reported that the Governor was keenly interested in the building and that the committee was anxious to do everything possible to obtain it, but changing the race track and the necessity for new buildings for horses and swine, together with the financial situation in the state this year, seemed to make it impossible that an appropriation be made for the whole amount. It was hoped that a sufficient appropriation at least might be made to have the plans drawn and the construction on part of the buildings begun. The committee discussed plans with the state architect and these plans provided for a building large enough to accommodate the exhibits of fruits, vegetables, flowers and farm crops.

President Pierson also reported that his committee had decided that because of the financial situation in the state this year, the money for the investigational range of greenhouses at Cornell University should not be asked for.

Charles H. Vick of Rochester, Anton Schultheis of College Point and Fred Danker of Albany, were appointed on a committee to confer with the Commissioner of Agriculture and the superintendent of the flower exhibit at the New York State Fair regarding the adjustment of a more satisfactory premium list for flowers and plants.

E. A. WHITE, Secy.

HORTICULTURAL SOCIETY OF NEW YORK.

The fall exhibition of this society will be held from November 8th to 11th, inclusive, at the American Museum of Natural History. A schedule of classes and premiums for this exhibition is now being prepared and will be ready for distribution shortly. The following classes and premiums,

open to all for chrysanthemum plants have already been decided upon:

Specimen Bushes, in not less than fourteen inch pots: Class No. A-1—Yellow, A-2—White, A-3—Pink, A-4—Any other color; 1st, \$50, 2d, \$35. A-5—Anemone or Single, any color; 1st, \$30, 2d, \$15.

In not more than fourteen inch pots: A-6—Yellow, A-7—White, A-8—Pink, A-9—Any other color; 1st, \$20, 2d, \$10, each variety.

Specimen Standards, not less than four feet in diameter, and not less than three foot stem: A-10—Any color; 1st, \$20, 2d, \$15. Not less than three foot in diameter, and not less than thirty inch stem: A-11—Any color; 1st, \$15, 2d, \$10.

Specimen, Odd Shape, in not less than fourteen inch pots: A-12—Any color; 1st, \$20, 2d, \$15. In not over fourteen inch pots: A-13—Any color; 1st, \$15, 2d, \$10.

GEO. V. NASH, Secy.

FLORISTS' CLUB OF PHILADELPHIA

On account of the near approach of Easter, the regular monthly meeting of the above club on the 3rd inst. was but moderately attended. The absentees missed a treat, as the orator of the evening was J. Otto Thilow, and his subject "Hawaii"—to which place he has been a recent visitor—and he told us of the glories of that wonderful oasis in the Pacific—animal, vegetable, and mineral, as only his trained, eloquent and accomplished personality could do it. Some day he promises to give us the pictures in addition to his splendid word portrayal, and we may all look forward to even a still greater treat in the future. Other matters taken up by the club were mostly rou-



PHILADELPHIA ROSE FESTIVAL
Pennock Bros.'s Display.

tine or of but local interest. The most encouraging report was that rendered by the committee in charge of the games and social features. They were able to show a decided gain in receipts as compared with the same period last year. More power to them.

THE CLEVELAND FLOWER SHOW.

The fifth annual Cleveland Flower Show will be held at the Hotel Statler, November 8 to 11, in connection with the annual meeting and exhibition of the Chrysanthemum Society of America and fall meetings and shows of the American Rose Society and American Carnation Society, which will be held in Cleveland during the same dates and as a part of the Cleveland Flower Show. The preliminary premium list carries about \$1,500 in cash besides some forty valuable cups, vases and medals. The executive office is at 402 Leader-News Bldg., Cleveland.

H. P. Knoble, general chairman of show committees, sends the following note of explanation:

It was our plan to conduct a big show this fall, in fact we had our preliminary plans about complete by January 1st, when we were informed by the owners of the Wigmore Coliseum that their building would not be available for the use of shows after March 1st, 1917.

We spent much time endeavoring to persuade the owners to change their plans but were unsuccessful and after considering all the other buildings available for shows, finally decided to accept the offer of Hotel Statler to use the entire mezzanine floor and proceeded to readjust our premium list to fit the space, 12,500 square feet.

This will explain the long delay in issuing this list.

H. P. KNOBLE,
General Chairman Show Committees.

A CORRECTION.

Dear Sirs:

Will you please make the following correction in the list of awards submitted to you from the recent New York Flower Show. Class 310, calling for Climbing Pink Specimen Rose was won by A. N. Pierson, Inc., 1st prize, and F. R. Pierson, Inc., 2nd prize; instead of vice versa as it appeared in the last edition of your paper. This was a mistake on the part of the jurors judging the class and not caused by either of the exhibitors involved.

Yours very truly,
CHARLES H. TOTTY.



Photo by Edwin Lenick
NEW YORK INTERNATIONAL FLOWER SHOW.
First Prize Rock Garden by A. N. Pierson.

"Get them at Dreer's"

Hardy Perennials

For many years one of our most important specialties, our stock this season is again in prime condition, more extensive than ever, with a complete assortment of both standard varieties and novelties.

Roses, Two Year Old Plants for Outdoor Planting

Our Roses are all field grown plants which were dug in the fall, and which during the winter months were potted into 5 and 6 inch pots. They are stored in cold houses and frames, being retarded as much as possible, and are just the sort of stock that will please your retail customers. We are particularly strong on Hybrid Teas but carry also nearly all other types.

Aquatic Plants

Eight acres of Ponds are devoted to Hardy Nymphaeas and Nelumbiums alone, a large assortment of Tropical Nymphaeas, Victoria Regia, etc., as well as sub-aquatic plants for marginal planting. If interested in these, send for our book 'Dreer's Water Lilies.' It is not only descriptive, but gives full cultural directions.

Hardy Shrubs and Vines

A choice assortment of standard varieties—Altheas (including our own splendid novelty William R. Smith)

Azaleas, Callicarpa Purpurea, Hydrangea Aborescens Grandiflora, and Paniculata Grandiflora, Cotoneasters, Buddleias, Deutzias, Forsythias, Prunus, Philadelphus, Spiraeas, Viburnum, Weigelas, Ampelopsis, Akebia, Aristolochia, Clematis, Honeysuckles, Wisterias, etc.

Decorative Plants

Palms and Ferns, Aspidistra, Crotons, Dracaenas, Ficus, Pandanus, etc.

Amaryllis, Tuberous-Rooted Begonias, Caladium Esculentum and a splendid assortment of Fancy-Leaved Caladiums, Golden Yellow and Spotted-Leaved Callas, Hyacinthus Candicans, Gladiolus, Lilies, Montbretias, Tigridias, Tuberoses, etc.

All of the above and many others are fully described in our current Wholesale List, January to June, which will be mailed upon request only to persons engaged commercially in Horticulture.



HARDY NELUMBIUMS.

HENRY A. DREER

714-716 Chestnut Street,

Philadelphia, Pa.

CONCERNING THE PROPOSED PROHIBITION OF IMPORTS OF PLANTS.

At the regular meeting of the New York Florists' Club, March 12th, the following resolution was adopted unanimously:

"That the New York Florists' Club protests against the proposed legislation which seeks to stop imports of plants, plant products, and bulbs, as being injurious to business—without giving any benefit to the public welfare, and that it looks to the Legislative Committee of the S. A. F. and O. H. to oppose it.

"And that the Secretary be instructed to send a copy of this resolution to the Executive Committee of the S. A. F. prior to their meeting on March 16th, asking them to give full power to the Legislative Committee."

On March 12th, at their regular meeting the New York & New Jersey Plant Growers' Association adopted practically the same resolution as the above.

At the special meeting of the Legislative Committee of the S. A. F. & O. H., held at the Hotel Biltmore, March 15th, the subject was discussed from all angles. A few representative growers such as Julius Roehrs, J. D. Elsele, Wallace R. Pierson, A. L. Miller, Adolf Gude and others were invited and a course of action was decided upon, one of the members being delegated to present the matter to the Executive Committee of the S. A. F. & O. H.

On March 16th, the Executive Committee of the S. A. F. & O. H. adopted unanimously the following resolution:

"Whereas, it has come to our notice that an effort is to be made to introduce legislation into Congress, seeking to prohibit at some future time the importation of Plants, Bulbs, Plant Products and Nursery Stock of all kinds from every source, and Whereas, the Executive Committee of the S. A. F. & O. H. considers such measures not only unnecessary, but injurious to the welfare of its members and to the whole horticultural trade of the United States, therefore be it

Resolved, That the Chairman of the Legislative Committee of the S. A. F. & O. H. be empowered, and is hereby empowered, to oppose the proposed legislation, to act according to his judgment in the interests of our Organization at the forthcoming conference, to get what assistance he can from any of its members, and to share with the Nurserymen's Legislative Committee the expense of employing a trained man to help protect our joint interests."

The Legislative Committee of the S. A. F. & O. H. is now empowered, and prepared, to meet the committee in charge of the proposed measure at a conference which will probably be called late in June.

J. McHUTCHISON,
Member, Legislative Committee.

CLUB AND SOCIETY NOTES.

The April meeting of the Cincinnati Florists' Society will be held Monday, April 9th, at Hotel Gibson.

The Newport, R. I., Horticultural Society is making plans for a ladies' night in Music Hall, Tuesday evening, April 24, and preliminary plans for the annual fall flower show, Wednesday, Thursday and Friday, September 5, 6 and 7, in the convention hall at the beach, the annual ball to be given on the night of the closing day of the show. The preliminary schedule of prizes for the show will be ready for the consideration of the members at the next meeting.

Wintzer's Colossal Canna As Big as a Man's Hat

WINTZER'S Colossal Canna is not only the largest Canna in commerce, but is without even a near rival. To say that it is as big as a man's hat is not exaggeration. Its flowers are over 8-inches across. Its color is a strikingly vivid scarlet that retains its brilliancy. It is far and away the most prolific of its class.

It is the result of years of tireless hybridizing and experimenting on the part of Antoine Wintzer, Vice-President of this Company.

Mr. Wintzer has been well called the Canna Wizard. He has probably done more to make the Canna the thing of beauty that it is today, than any other man in America. For twenty years, he has patiently worked with his "Canna children," continually and persistently striving to improve the type.

The Colossal Canna and our other Swasteeka Brand Cannas bear convincing witness as to the measure in which he has succeeded. Our prices to you for Wintzer's Colossal are 10 for \$2.50, 100 for \$18.

Send for our price-list of Swasteeka Brand Cannas.

Swas-teeka Brand Cannas

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West Grove, Pa.

ACACIA HETEROPHYLLA



An Easter Favorite Grown by A. L. Miller
in 6 Inch Pot.

Rutherford, N. J.—The annual flower show at the Julius Roehrs Company greenhouses took place this year on Saturday afternoon, March 31, and on Palm Sunday, April 1, morning and afternoon, and was very largely attended. The magnificent exhibition of flowers, no doubt the finest of the kind in this country, is the Julius Roehrs' Company's yearly contribution to charity in Rutherford and is devoted to the hospital fund of the T. I. A.

PITTSBURGH FLOWER SHOW.

Pittsburgh is to have a notable flower show on June 13-16, inclusive, and has shied its hat into the ring by securing as manager that past-master of flower show managers, Arthur Herrington of Madison, N. J. The final schedule is out and is a model in its way. Close to \$3000 is offered in prizes besides cups, medals, etc., and commercial and private growers are well cared for. The show is given under the auspices of the Garden Club of Allegheny County and practically all of the premiums are contributed by amateur friends of horticulture, clubs, etc. The show will be held in Motor Square Garden, Baum Boulevard, and a liberal space has been reserved and is offered for sale for trade exhibits.

Little Ads. That Bring Big Returns

Little Ads. in our Classified Buyers' Directory bring big returns to both advertiser and purchaser.

Anything wanted by florists, gardeners, park and cemetery superintendents, etc., can be sold through this medium.

THEY COST ONLY ONE CENT
A WORD UNDISPLAYED

Don't fail to read over these Ads. in each issue and you may find one or more that will prove profitable to you.

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Visitors' Register

Pittsburgh—J. A. Peterson, Cincinnati; Julius Dilloff, of New York City.

Chicago—Mrs. M. E. Hollcraft and daughter, Mrs. Maie H. Bendor, Topeka, Kan.; Mrs. Terwilliger, of the Terwilliger Moore Co., St. Paul, Minn.

Philadelphia—C. B. Coe, D. M. Ferry & Co., Detroit, Mich.; W. H. Vance, Wilmington, Del.; Albert M. Herr, Lancaster, Pa.; W. E. Hildebrand, Harrisburg, Pa.

Cincinnati—H. C. Shulls, Roanoke, Va.; Clark Marion, Overpeck, O.; Floyd Anderson, Xenia, O.; O. S. Honaker, Lexington, Ky.; Wm. Rodgers, Dayton, O.; Miss Fannie White, Lexington, Ky.; Mrs. H. C. Row, Huntington, W. Va.; Mrs. J. J. Lampert, Xenia, O.

Washington, D. C.—Julius Dilloff, New York; Walter E. Cook, Cleveland, Ohio; W. A. MacNulty, Miami, Fla.; F. T. Coon, Fredericksburg, Va.; E. B. VanAtta, Logan Pottery; A. Krouwell, M. Koster & Sons, Boskoop, Holland; George Van der Mey, Lisse, Holland; I. Rosnosky, Philadelphia, Pa.

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AZALEAS, CONIFERS, CLEMATIS,
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P. O. No. 1, Hoboken N. J.

Obituary

A. M. Kirby.

Arthur Martin Kirby died suddenly at his home in Montclair, N. J., on March 26th.

Mr. Kirby entered the employment of Peter Henderson at the greenhouses in Jersey City in 1876 and remained in the employ of Peter Henderson & Co. until his death. He was given charge of the flower seed, bulb and implement department many years ago and for a number of years attended to getting up the catalogue of the firm, at which work he was an adept, probably unsurpassed in the United States.

He was a ready writer, full of imagination, and so the descriptive matter which he wrote, particularly on flowers and bulbs, was very effective for catalogue purposes. He was also the author of the work, "Narcissus Daffodils, and How to Grow Them." He was passionately fond of flowers and always maintained a very interesting garden at his own home, where he tried out new varieties from all sources.

Mr. Kirby was born in Ohio in 1859, but his family moved to Martinsburg, W. Va., shortly after the civil war. He was married and leaves twin daughters and one grandchild. He was a genial, companionable man although he did not mix to any extent with horticultural bodies. He was very popular with his fellow workmen.

In 1914 he was elected vice-president of the American Sweet Pea Society. He was very partial to sweet peas and was considered an authority on varieties.

THE LATE LAWRENCE COTTER.

Supplementing our Obituary Notes in last week's issue.

Lawrence Cotter was born in Midletown, County Cork, Ireland, on February 14, 1855, and died at Jamestown, N. Y., March 24, 1917. He worked during his early youth on some of the large estates in Ireland, notably Lord Donerail's estate at Cork. He emigrated to this country at an early age, and after working in various places took charge of the Rosemere Conservatories at Dorchester, Mass., in 1888, where he continued until 1900, when he leased the Galvin Conservatories at Dorchester. Here adversity dealt him a blow when during the coal strike of 1902 he vainly attempted to operate under the high cost of coal, and he went to Danville, Pa., to take charge of the fine range of glass J. R. Bennett had built at his magnificent estate, Castle Grove. Business prospered and plans were drawn for the largest and most modern range of glass in the United States. These plans were never executed, as Mr. Bennett was killed in the wreck of the 20th Century Limited near Kent, Ohio, when en route for Dansville to go over the ground for the last time before advertising for bids. Mr. Cotter later leased the greenhouses, but after operating them for several years accepted an offer to take charge of the Rosemere Conservatories in Dorchester which had been purchased by Eugene N. Foss, later governor of Massachusetts. He continued there for three

years and then left to take charge of the Lakeview Rose Gardens of Jamestown, where he remained until his death.

Mr. Cotter's illness extended over three years. Throughout all that time, with the indomitable will that marked him as a personality extraordinary during the whole of his life, he fought bravely against the assaults failing health was making on his vitality and he met death with the same courage he met all other life problems and passed out into the sea of mystery unafraid and with a smile. He died as he lived; courageous and philosophical.

He is survived by one brother, William Cotter, of Dublin, Ireland, his widow, Mrs. Johanna Cotter, three sons, Wm. of Montreal, Chas. N. of Jamestown, N. Y., and Jeffry of Baltimore, Md., and four daughters, Catharine, Julia, Johanna and Mary.

CATALOGUES RECEIVED.

C. E. Varnum & Son, Atco, N. J.—Price List of Dahlias.

Dean Iris Gardens, Moneta, Cal.—Catalogue and Price List of Iris.

H. E. Meader, Dover, N. H.—illustrated Price List of Gladiolus Bulbs.

C. S. Quick, Berkeley, Cal.—Dahlias, 1917. The list comprises over 600 varieties.

Weathered Company, New York City.—Illustrated folder of Greenhouse Construction.

Wm. H. Moon Company, Morrisville, Pa.—Catalogue of Rare and Unusual Trees and Plants.

T. C. Thurlow's Sons, West Newbury, Mass.—Illustrated Spring Catalogue of Cherry Hill Nurseries.

Elm City Nursery Co., New Haven, Conn.—Complete Catalogue for 1917, of Trees, Shrubs and Border Perennials.

Wood Brothers, Fishkill, N. Y.—Catalogue and Retail Price List of Hardy Shrubs, Greenhouse and Bedding Plants, Etc.

Blue Hill Nurseries, South Braintree, Mass. Price List of Specimen Evergreens, Trees, Shrubs and Herbaceous Perennials.

Mt. Desert Nurseries, Bar Harbor, Me.—New and Desirable Hardy Trees and Shrubs. A list of unique interest to the hardy garden enthusiast. Quite a proportion of the new things listed are Wilson introductions from China, which thus far cannot be found at other nurseries. These novelties have all been given a thorough test for hardiness and other desirable qualities in the extreme climate of Mt. Desert and it is gratifying that so many of these beautiful introductions have stood the test satisfactorily. There will be a large call for this list.

PUBLICATIONS RECEIVED.

Help Hints. Published by Julius Roehrs Co., Rutherford, N. J. A pocket size pamphlet with dainty cover illustration in colors. Gives useful advice to the amateur in garden arrangement and planting.

Prospectus of the College of Agriculture, University of California, 1917-1919. Bulletin Vol. X, No. 8. An 80-page publication, illustrated with many plates showing the various activities of the college in the phases of research, education and public welfare.

"Newton—the Garden City of Massachusetts." Report of Forest Commissioner for 1916. W. W. Colton is Forest Commissioner for the city of Newton. This 52-page report with its many impressive pictures shows that Newton's trees are well cared for under his management.

Manual of Agricultural Laws. Issued by the Massachusetts State Board of Agriculture. Compiled and edited by R. Edwards Annin, Jr., A. B. An invaluable book, giving the various enactments complete, now operative in Massachusetts, together with indexes and cross-references of great value.

The Year Book of the Florists' and Gardeners' Club of the Massachusetts Agricultural College for 1917 is a handsome publication of which the students may well feel proud. Paper, type and illustrations are all high class and the reading pages tell much that is interesting about the students and their work.

The Missouri Botanical Garden Bulletin for February 1917, contains an excellent special article effectively illustrated on "Window Boxes, a Type of Floral Decoration Applicable to Down-town Districts. Among the illustrations is one of the Filene building in Boston, with plant boxes arranged by John D. Twombly.

The first number of Volume IV of the Annals of the Missouri Botanical Garden has been issued with the following contents: "Hybrid Nymphaeas," G. H. Pring; "Monograph of the North and Central American Species of the Genus Senecio—Part II," J. M. Greenman; "A Spurless Variety of Habenaria psycodes," Mary M. Bryan; "A Systematic Study of the Genus Trilium, Its Variability and Its Relation to Paris and Medeola," R. R. Gates.

Nebraska Horticulture, published by the Nebraska State Horticultural Society at the State Capitol Building, Lincoln, Neb., and edited by J. R. Duncan, secretary, is a book of 300 pages, which is well filled with interesting and instructive matter and is finely illustrated with 28 full page views and diagrams. Apples and grapes and truck farming are given much attention, but ornamental horticulture, good seed and other important departments of horticulture are not neglected.

The American Sweet Pea Bulletin and Schedule for 1917 has been received and will be cordially welcomed, we feel sure, by the sweet pea lovers. This bulletin is the official organ of the



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American Sweet Pea Society, published by the society under the direction of the secretary, William Gray, Newport, R. I., and edited by J. Harrison Dick, New York. This issue contains cultural articles and notes by Wm. Gray, Geo. W. Kerr, Wm. Sim and Ed. Jenkins, and reminiscences by the late Rev. W. T. Hutchins.

SPRAY IRRIGATION, by Milo B. Williams, Irrigation Engineer, is the title and subject of Bulletin No. 495 issued by the U. S. Department of Agriculture. Complete information regarding the proper use of spray irrigation, the types of various systems, procedure for installing such, cost, data, etc., is given and the text is fully illustrated. This is a 40-page pamphlet which everyone contemplating the introduction of stationary spraying equipment should carefully peruse before giving an order for such an outfit to anybody.

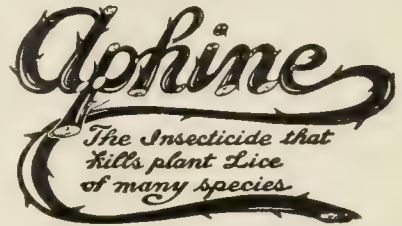
"Apple Growing," being Bulletin No. 2, Nov., 1916, Fifth Edition, Revised. Issued by the Massachusetts State

Board of Agriculture, Wilfred Wheeler, secretary. This is a very complete manual on Apple Growing and will be found full of interest and reliable information for anyone engaged in or thinking of engaging in the apple growing industry. Apple growing in Massachusetts has received a great stimulus within the past ten years and this book will do much towards invigorating and extending the movement. There are 258 pages, fully indexed and illustrated by many plates.

The American Rose Annual, published by the American Rose Society, edited by J. Horace McFarland, an advance copy of which is received at the office of **HORTICULTURE**, is now ready for distribution to the members of the society. Progressiveness is stamped on every page of this publication and its effect will be very stimulating for American rose growing in and for America, both in the raising of new varieties and the production of plants for the general trade. The articles and illustrations have all been focused on this aim. That the importation of roses is regarded as of major importance and that the promotion of amateur rose exhibitions is a paramount duty is well set forth and valuable suggestions regarding the management of such shows are made. In addition to the continuance of the careful survey of rose troubles—begun last year—the start of an accurate catalogue of roses has been made in this year's Annual. The membership list shows an increase in associate or amateur members beyond 2,000 per cent and the membership as a whole, including trade and life members, has more than quadrupled within the year.

FOR BLIGHT-IMMUNE CHESTNUT TREES.

The possibility for continued growth of chestnut trees in the United States, in the face of the rapid spread of the destructive chestnut blight, may depend mainly upon replacing of the susceptible native trees by disease-resistant strains and hybrids bred from Asiatic stock. This is pointed out by plant pathologists of the U. S. Department of Agriculture who have made exhaustive studies of the disease in field and laboratory during the last five years. Four generations of cross-bred Japanese chestnuts of a very early bearing type, producing nuts when two or three years old, have already been grown, and the varietal characters appear to be well fixed. Some of the Chinese chestnuts are said to grow nearly 100 feet high in their home forests, and it may be possible by their use to replace in some measure our vanishing native chestnut stands and perhaps develop superior varieties during the process of acclimatization.



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½ Pint, 25c.; Pint, 40c.; Quart, 75c.; ½ Gallon, \$1.25; Gallon, \$2; 5 Gallon Can, \$9; 10 Gallon Can, \$17.50. Directions on package.

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Government Seed Proposals.

Sealed proposals will be received by the General Supply Committee at its office in Washington, D. C., until 2 o'clock P. M., Tuesday, May 1, 1917, for furnishing for use in the District of Columbia by the executive departments and other establishments of the government on direct delivery from contractor's shipping point on government bill of lading during the period beginning July 1, 1917, and ending October 31, 1917, of seed as follows:

Seed	Purity	Germination	Purchases, four months (July 1, '16 to October 31, '16.)
Alfalfa	98	90	125
Clover, alsike	98	90	50
Clover, red	98	90	50
Clover, white	98	90	Not given
Kentucky Blue Grass. 80	70	4,492	
Red Top	85	85	350
Rye	99	95	10,284
Timothy	98	90	75
Orchard Grass	90	90	New item
Perennial Rye Grass. 95	90	90	New item
Italian Rye Grass....	95	90	New item

Home Grown Seeds.

Many county asylums and poor farms in Wisconsin are fast becoming noted for the production and distribution of improved varieties of corn, grains, and forage crops. One of the most successful county farms in this line of production is that of Chippewa county at Chippewa Falls, F. O. Bible, superintendent.

In a letter to the officials of the field crops department, College of Agriculture, Mr. Bible says that within three weeks ending Feb. 15, the Chippewa 4,000 bushels of Wisconsin pedigree

No. 1 oats and 750 bushels of Golden Glow corn, to be used for seeding purposes this spring.

"Being unable to fill these orders ourselves we must turn them over to other growers of Wisconsin pure bred seeds," states Mr. Bible, adding that it is the intention of the Chippewa county farm managers to plant 200 acres of Wisconsin No. 12 corn this spring, together with a hundred acres each of Pedigree No. 1 oats and Wisconsin Pedigree, or Oderbrucker, barley.

Establishing these local centers for home grown seeds of tested vitality and guaranteed purity is one of the most important results of the extension activities carried on during the past ten years by the College of Agriculture, through its field crops staff. County farms at Peshtigo, Marinette county, Richland Center, Richland county, Reedsburg, Sauk county, New Richmond, St. Croix county, and Wyanocena, Columbia county, have become of direct service to neighboring farmers in this way. The State School for Boys at Waukesha, the Indian school near Tomah, and the Northern State hospital at Winnebago are also in line with the project.

New Seed Stores.

Mountville, Pa.—Mountville Seed & Plant Company.

Milwaukee, Wis.—The West Side Seed House has opened a store at 857 Third street.

Notes.

The Ohio Agricultural Experiment Station has sent out a notice to the effect that the supply of Arlington timothy seed for free distribution among farmers has become exhausted, and further applications cannot be filled.

"The Canadian Seed Growers' Association and its Work," and "A Catalogue of Registered and Improved Seed Produced in 1916 and Offered for Sale," are the titles of two bulletins recently issued from the headquarters of the Association at Ottawa.

PATENTS GRANTED.

1,220,219. Sectional Skylight. Barney Goldman, New York, N. Y.

1,220,279. Hotbed Sprinkler System. Earl Sexton, Hartford, Conn.

Hartford, Ct.—Long Bros. have purchased the Wethersfield Avenue Greenhouses.

CANNAS, Dormant Roots

Packed 250 in a Case
Full cases at 1000 rate

Red-Flowering Cannas, Green Foliage

BEAUTE POITEVINE. 3½ ft.	2.00	1000
BLACK PRINCE. 4 ft.	2.75	25.00
CHARLES HENDERSON. 4 ft.	2.00	17.50
CHEROKEE. 4 ft.	1.50	14.00
CRIMSON BEDDER. 3 ft.	2.75	25.00
DUKE OF MARLBORO. 4½ ft.	1.75	15.00
FURST BISMARCK. 4 ft.	1.65	15.00
CHANCELOE BULOW. 3 ft.	1.65	15.00
J. D. EISELE. 5 ft.	1.65	15.00
LOUISIANA. 6 ft.	1.65	15.00
METEOR. 5 ft.	12.00	100.00
MEPHISTO. 3½ ft.	1.65	15.00
MUSAFOLIA. 7 ft.	1.65	15.00
PRESIDENT CLEVELAND. 3 ft.	2.00	17.50
PRES. MEYER. 4 ft.	2.00	17.50
PILLAR OF FIRE. 6 ft.	2.00	17.50
TARRYTOWN. 3½ ft.	2.00	17.50

Yellow and Yellow Spotted

JOHANNA KANZLEITER. 4 ft.	1.65	15.00
GUSTAV GUMPPER. 4 ft.	3.75	35.00
RICHARD WALLACE. 4½ ft.	1.65	15.00
GLADIATOR. 5 ft.	1.65	15.00
AUSTRIA. 6 ft.	1.65	15.00

Orange Shades

MRS. KATE GRAY. 6 ft.	1.65	15.00
INDIANA. 6 ft.	1.65	15.00

Yellow-Edged and Gold-Edged Cannas!

AMERICA. 5 ft.	1.35	12.00
ALLEMANNA. 4 to 5 ft.	1.35	12.00
DUKE OF YORK. 5 ft.	2.75	25.00
GLADIO-FLORE. 3½ ft.	1.65	15.00
ITALIA. 4½ ft.	1.50	14.00
JEAN TISSOT. 5 ft.	1.65	15.00
MAD. CROZY. 5 ft.	2.25	20.00
SOUV. de A. CROZY. 4 ft.	2.25	20.00

Pink-Flowering Cannas

VENUS. 3½ ft.	2.00	17.50
SHENANDOAH. 6 ft.	1.65	15.00

CALADIUM ESCULENTUM

(Elephant's Ear)

Full cases at 1000 Rate

	Doz.	100	1000
7/9 100 in a case	.50	3.50	30.00
9/11 75 in a case	.75	5.50	50.00
11/12 50 in a case	1.10	8.00	75.00
13/up 25 in a case	1.60	12.00	

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Mixed Brazilian Varieties. \$1.25 per doz., \$10.00 per 100.

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	\$1.00	\$7.50

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STRONG STOCK.

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"	Mixed	2.50	22.50
Double,	Separate colors	4.00	35.00
"	Mixed	3.50	30.00

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7 to 9 in. (300 bulbs to case)...	\$5.50	\$50.00
8 to 9 in. (250 bulbs to case)...	7.00	65.00
8 to 10 in. (225 bulbs to case)...	9.00	80.00
9 to 10 in. (200 bulbs to case)...	10.00	95.00

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11/13, 100 to a case.....	15.00 per case
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8/10, 200 to a case.....	\$80.00 per 1000
9/10, 180 to a case.....	90.00 per 1000
11/13, 100 to a case.....	16.00 per case

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Of Interest to Retail Florists

Worcester, Mass.—The new store of Harry I. Randall at 22 Pearl street is a beautiful and impressive conception. The handsome window arrangements form wings for a pergola which starts at the entrance and extends to the rear wall. There are swinging gates, arches and latticed partitions over which vines and roses clamber. The walls and interior fittings are in subdued colors and the cut blooms and plants supply all the brilliancy. The walls are done in a flat white finish with dove gray panels set in below the ceiling line. The pergola, trellis and other fittings are white with birch runners under the pergola for the display of flowers. Mirrors panel the pergola walls and oval mirrors are used for wall decorations in other sections of the store and the work tables and counters for display purposes have black onyx tops. Urn-shaped globes of white onyx shade the lights which are suspended from the ceiling with wrought iron chains. The store furniture is in keeping with the fittings.

NEW FLOWER STORES.

Cleveland, O.—Schoen Floral Co.

Hudson, N. Y.—Josef Nowotarsky, 326 Warren street.

Olean, N. Y.—Manuel Oppenheim, Olean House block.

New York, N. Y.—Herman Warendorff, 2351 Broadway.

Sherman, Tex.—The Home of Flowers, 215 N. Travis street.

Winchendon, Mass.—The Flower Shop, Express Office Building.

NEW CORPORATIONS.

Hemet, Cal.—Howard Rose Co., capital stock, \$5,000. Incorporators, C. Howard, Gertrude Howard and E. Linquist.

San Fernando, Cal.—Walker-Hubbard Nursery Co., capital stock, \$75,000. Incorporators, T. J. Walker, J. L. Walker and C. D. Huggard.

Elkhart, Ind.—The Plant & Flower Association, greenhouse growers, capital stock, \$10,000. Incorporators, Henry D. Seele, William R. Seele and Louis J. Lathrope.

Providence, R. I.—In a movement to cultivate the vacant lots in this city, an aggregate of 1,000,000 square feet was offered by various land owners in one day. Congressman O'Shaunessy is to furnish 50,000 packets of free seed. David Elder, agent of the Providence County Farm Bureau, will look over the many pieces of land that have been offered for garden purposes with a view to determining their fertility.

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1896 W. 25th St., Cleveland, O.
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THE SMITH & FETTERS CO.
735 Euclid Avenue
CLEVELAND, OHIO
Flowers of Every Kind in Season

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Telephones 1501 and L 1532.

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ANDERSON service means fresh, sturdy
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Randall's Flower Shop

HARRY L. RANDALL, Proprietor.
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Flowers by Telegraph

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

Albany, N. Y.—H. G. Eyres, 106 State St.
Albany, N. Y.—The Rosery, 23 Steuben St.
Boston—Thos. F. Galvin, 1 Park St.
Boston—Penn the Florist, 124 Tremont St.
Buffalo, N. Y.—S. A. Anderson, 440 Main
St.

Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan
Ave. and 31st St.

Cleveland, O.—J. M. Gasser Co., Euclid
Ave.

Cleveland, O.—Adam Graham & Sons,
5523 Euclid Ave.

Cleveland, O.—Knoble Bros., 1836 W. 25th
St.

Cleveland, O.—The Smith & Fetters Co.,
735 Euclid Ave.

Denver, Col.—Park Floral Co., 1643
Broadway.

Detroit, Mich.—J. Breitmeyer's Sons,
corner Broadway and Gratiot Ave.

Houston, Tex.—Kerr, The Florist.
Kansas City, Mo.—Samuel Murray, 1017
Grand Ave.

Los Angeles, Calif.—Howard & Smith,
853 So. Olive St.

New London, Conn.—Reuter's.
New York—J. H. Small & Sons, 505 Mad-
ison Ave., at 52d St.

New York—David Clarke's Sons, 2139-
2141 Broadway.

New York—Alex. McConnell, 611 5th Ave.
New York—Young & Nugent, 42 W. 28th.

New York—A. T. Bunyard, 413 Madison
Ave., at 48th St.

New York—Dards, N. E. corner 44th St.
and Madison Ave.

New York—Max Schling, 22 W. 59th St.
New York—G. E. M. Stump, 761 Fifth
Ave.

New York—Thos. F. Galvin, Fifth Ave.,
at 46th St.

Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415
Farnum St.

Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave., N.

St. Louis, Mo.—Fred C. Weber, 4326-28
Olive St.

St. Paul, Minn.—Holm & Olson, Inc.
Tarrytown-on-Hudson, N. Y.—F. R. Pier-
son Co.

Toronto, Can.—J. H. Dunlop, 8-10 West
Adelaide St.

Washington, D. C.—Gude Bros., 1214 F
St.

Washington, D. C.—George H. Cooke,
Connecticut Ave. and L St.

Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop,
22 Pearl St.

REUTER'S Members Florists'
Telegraph
Delivery

STORES IN

New London and Norwich, Conn.
and Westerly, R. I.

We cover the territory between

New Haven and Providence**ST. LOUIS, MO.**

FRED C. WEBER
4326-28 Olive St.

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NOTICE INITIALS. We have one store only

THE J. M. GASSER COMPANY,**CLEVELAND**

Euclid Avenue

The Far-Famed Flowers of**TORONTO**

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

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8-10 West Adelaide St. - TORONTO, ONT.

ALBANY, N. Y.

EYRES

Flowers or Design Work

**DELIVERED IN ALBANY AND VICINITY
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106 STATE STREET, ALBANY, N. Y.

"THE HOME OF FLOWERS"

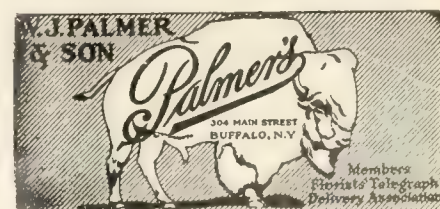
The largest cut flower store in America.
Orders for the TWIN CITIES and for all
Northwestern points given prompt at-
tention

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

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Members Florists' Telegraph Delivery.

DENVER, COLORADO

KERR ORDERS FOR TEXAS
HOUSTON, TEXAS

The Florist Member F. T. D. Association

NEWS ITEMS FROM EVERYWHERE

CHICAGO.

Miss Ida Sellinger of A. Lange's is quite ill. She has the important position of taking the telephone orders.

Lincoln Park, almost down town, is called the People's Park, and here every foot of the conservatories is filled. Probably more people visit this place than all the others together and last Sunday was no exception to the rule.

The new wholesale commission house of Wiltgen & Freres is getting a good start. Both young men are much respected by the trade and they will receive a fair share of patronage. Easter orders are showing up well on the books.

Fred Lautenschlager, sales manager for Kroeschell Bros., returned Saturday from the East where he saw the various flower shows and incidentally talked business with prospective builders. He says it will be very difficult to surpass the shows just given.

Frank Oeschlin's entire stock of blooming plants was booked three weeks before Easter, although his supply was larger than ever before. Truck difficulties were numerous during the Easter delivery, causing annoyance but no delay, as the disabled cars were quickly replaced.

Philip McKee has returned from a business trip in the interest of the American Greenhouse Manuf. Co. An order for a new range has been booked for Ed. A. Humfeld, of Kansas City, Mo. The houses which will be 36' x 150 ft. and devoted to growing roses and carnations, will be erected at Independence, Mo..

Kennicott Bros. Co. are finding their predictions of a banner Easter already fulfilled, for advance orders are footing up away ahead of previous years. As soon as Easter is over they will move to their new location on the opposite side of the street where a much larger place on the ground floor, with plenty of light will give them further opportunity to expand.

The Freres Windler Co., Inc., is now the sign on the door of Room 218 Ashland Block, where formerly it read Dominick Freres. The new member is R. J. Windler, formerly of St. Louis, Mo., where he was in the wholesale and retail flower business. He has lately taken the management of the range of greenhouses on Ridge Ave., owned by Adam Zender, his father-in-law, and will grow stock for the new concern.

The J. C. Moninger Co. has the contract for rebuilding the Rasmussen greenhouses at New Albany, Ind., which were destroyed last week by a tornado. They are old customers of J. C. Moninger whose good work heretofore made it an easy matter for their representatives, who lost no time in getting to the scene, to secure the new order. The greater part of the 175,000 square feet of glass was destroyed.

Poehlmann Bros. Co., sold out completely in their plant department before Easter week began. This looks as

if plants were even more popular than ever for each year the big plant growers raise more stock. In the downtown store, business will be facilitated by having the office and samples of the supply department brought to the same floor as the cut flowers. This has been done by cutting a door to the adjoining building and all will be ready for use after Easter.

The spring flower shows at the park conservatories opened last Sunday. Great preparations had been made for this annual event and it was a disappointment to the managers that the day was cold and wet and attendance comparatively small in consequence. At Garfield Park Conservatories the Easter lily was the center of attraction of course, but it shared honor with beds of roses, masses of baby rambles, great beds of cinerarias, amaryllis and Dutch bulbous stock and some splendid specimen rhododendrons. Opposite the entrance of this immense conservatory is the gold fish pond, its banks of rock covered with rare plants and from this position one looks across a mass of green shrubbery and tall trees into the tropical house beyond, where a sunken garden of ferns and palms, encircled by a walk, give the idea of distance not often found in conservatories. It is a place for rest and quiet and real communion with nature.

WASHINGTON, D. C.

Paul Bauer, son of Otto Bauer, manager of the Pennock-Meehan store, has been seriously ill with pneumonia.

An extension of the work of conducting investigations on injury to plants by frost and by action of poisonous gases, is to be carried on in Chicago under the direction of Dr. William Crocker. Rodney B. Harvey, microanalyst of the Bureau of Plant Industry, of the Department of Agriculture, has been directed by the Chief of the Bureau of Plant Industry to go to Chicago to assist Dr. Crocker.

The last day of March saw the passing of one of Washington's oldest establishments, for on that day the J. R. Freeman store at 612 Thirteenth street, Northwest, was closed. In its day, it was one of the largest and handsomest establishments in the city. There were in addition greenhouses on Georgia avenue and the large place in Georgetown, the former now controlled by a Mrs. Martin, while the latter was discontinued some time ago. The business was founded over fifty years ago by the late Joseph R. Freeman, who passed away in 1910. Since that time his sons have been running the business. During thirty-five years of this time the store has been largely looked after by Walter F. Payne. Mr. Payne is now going into business for himself and has opened a store at 1303 F street, Northwest.

Roy Rudolph, of Cincinnati, and Miss Irene Wachters are to marry on Wednesday, April 18th. The ceremony will take place at the Evanston Presbyterian church.

PITTSBURGH.

George Crosby, formerly a greenhouse attache for G. P. Weaklen & Co., has been promoted to the designing department.

Rambler roses, Pink Pearl rhododendrons, French hydrangeas, heather and azaleas predominate in the retailers' Easter displays. Baskets of plants festooned with ribbon with dainty effect are shown in brilliant array.

The Pittsburgh Vacant Lot Garden Association has announced the provision of a garden for every deserving family in Pittsburgh under the direction of superintendent J. H. Wiesman. This is the first measure taken towards economic preparedness in the event of war.

Webster T. Ammerman, who has been connected with the landscape department of the A. W. Smith Co., has resigned to accept a similar position in Akron, Ohio. He is succeeded by James W. Phillips, Carnegie Institute of Technology, '06, and Paul Klingensmith of Indianapolis, Ind., who will graduate from Carnegie "Tech." in June.

BOSTON.

Last Saturday afternoon the members of the Houghton Horticultural Society visited the greenhouses of Thomas Roland at Nahant to view the Easter display.

A free lecture on the cultivation of city gardens was delivered by John K. M. L. Farquhar in the Uphams Corner Municipal Building, Monday evening, April 2.

The members of the exhibition committee of the Massachusetts Horticultural Society were the guests of the Horticultural Club of Boston at the Parker House on Wednesday evening, April 4. There was a very interesting discussion on Flower Show problems. The decorations were vases of splendid Darwin tulips by William Sim.

PERSONAL.

F. R. Pierson is laid up with the grippe at his home in Tarrytown, N. Y.

T. J. Nolan, of the King Construction Co., of No. Tonawanda, N. Y., is now associated with Henry S. DeForest in the New York office, 42nd street and Broadway, where visitors are always welcome. Both gentlemen are well known to the trade and the gardening fraternity.

George W. Foulsham has resigned as superintendent of Highlawn farm, Lenox, Mass., and will go to Bethlehem, Pa., to engage in the florist business. He was appointed superintendent of William B. O. Field's place at the time the place was being created in 1907, having previously been in the employ of Spencer P. Shotton at Shadow Brook and at Savannah, Ga. The employees at Highlawn farm presented a purse of gold to Mr. Foulsham.

AFTER EASTER

Weddings == Mothers' Day == Memorial Day

Fill up your Show Cases and Shelves with another nice stock of Bayersdorfer Baskets and other Seasonable Supplies. We have splendid novelties and all the standard goods in endless variety, Home Manufacture and Imported.

SEND FOR CATALOGUE AND PRICES

and see how much you can do with a little money when you go straight to headquarters—*The Florists' Supply House of America.*

H. BAYERSDORFER & CO.

Manufacturers and
Importers

1129 Arch Street, PHILADELPHIA, PA.

Write for
Catalogue

A VISIT TO CLIFTONDALE.

On Saturday, March 31, the committee members of the Massachusetts Horticultural Society and other invited friends visited William Sim's greenhouses at Cliftondale to see his polyanthus primroses and other crops and were rewarded with a sight the equal of which could not be found anywhere in this country at least. Twenty-five thousand polyanthus, enormous plants loaded with bloom were worth going a long way to see. Then there are extensive houses of single violets, from which Mr. Sim estimates he will pick no less than 150,000 flowers for Easter. Through the centre of each bed a line of sweet peas has been set to follow the primulas and violets and these plants are now about three feet high. There is also a splendid house of carnations.

Mr. Sim is giving the auricula a try-out as a florists' spring flower. There is one full-length bed of these plants well flowered with their characteristic "art-colored" blooms. They are somewhat difficult to grow in this climate and require the protection of a cheese cloth shade in the summer.

D. R. Craig, chairman of the garden committee, presided at a little "talk fest" where refreshments were served and appreciative remarks were made by Wm. J. Stewart, W. N. Craig, J. K. M. L. Farquhar, James Wheeler, Robert Cameron and Mr. Sim.

A brief visit was also made to the Revere place of Thomas Roland, nearby, where a 600-ft. house of Christmas Pink Orchid sweet peas was viewed with delight. The vast rose houses were in equally admirable condition, including one lot of 12,000 Richmond, now four years old. Mr. Roland does not try for the big grade of roses. 9 in., 12 in. and 15 in. are his standards and he regards these grades as the most useful.

Lexington, Mass.—An old ice house on the property of the Breck-Robinson Co., was destroyed on Tuesday morning, April 3, by fire supposed to have been incendiary. The nursery stock was not damaged.



A TABLE DECORATION.
"Dutch" Dinner Table at Boston Spring Show, by A. S. Caplan.

Providence, R. I.—W. E. Chappell, secretary of the Florists' and Gardeners' Club of Rhode Island, is slowly gaining strength and is looking forward to complete recovery in the near future. Mr. Chappell was taken ill on the twenty-third of February and for three weeks was at home so critically

ill that the doctor gave no hope of his recovery. Congestion of the lungs and then a gripe complication that affected the heart, with a high run of fever caused him to be delirious and necessitated his removal to the Capitol Hill Hospital. His business has been cared for by his wife.

BEAUTIES

as we can furnish you give satisfaction
and at our price is profitable stock
for you to handle.

THE LEO NIESSEN CO.

Wholesale Florists

1201-05 Race Street,

PHILADELPHIA, PA.

To Cut Flower Growers and Retail Florists

IF YOU

want to find a market for your
product

want a regular or special supply
of the product of the best
growers

Consult the Advertisements on
these Wholesale Flower Pages

The Advertisers Represented Here are the Leading
Concerns in the Wholesale Flower Trade

EDWARD REID WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.
CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

Philadelphia Wholesale Florist Exchange

ROSES OUR SPECIALTY

A trial order will convince you
1615 Ranstead St., PHILADELPHIA, PA.

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$1.85. 50,000...\$8.00. Sample free.
For sale by dealers.

E. G. HILL CO.

Wholesale Florists

RICHMOND, IND.

Please mention Horticulture when writing.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

264 RANDOLPH ST., DETROIT, MICH.

The House for Quality and Service

ZECH & MANN

We are Wholesale Florists Doing
a Strictly Wholesale Business

30 East Randolph Street, CHICAGO



POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut Flower Market

Daily consignments from
leading growers

Full line of Florists'
Supplies

Write for quotations before
ordering elsewhere

262B DEVONSHIRE ST., BOSTON, MASS.
Telephone, Main 6267-6268

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON April 5		ST. LOUIS April 2		PHILA. April 2	
Roses						
Am. Beauty, Special	40.00	to 50.00	40.00	to 50.00	40.00	to 50.00
" " Fancy and Extra	20.00	to 35.00	20.00	to 30.00	25.00	to 35.00
" " No. 1 and culls	4.00	to 8.00	3.00	to 8.00	6.00	to 20.00
Russell, Euler, Mock	2.00	to 10.00	3.00	to 15.00	4.00	to 35.00
Hadley	3.00	to 12.00		to	6.00	to 20.00
Arenberg, Hoosier Beauty	3.00	to 10.00	3.00	to 10.00	4.00	to 12.00
Ward	2.00	to 8.00	3.00	to 10.00	4.00	to 8.00
Killarney, Radiance, Taft	2.00	to 8.00	3.00	to 8.00	3.00	to 18.00
Ophelia, Sunburst, Hillingdon	2.00	to 10.00	4.00	to 12.00	4.00	to 12.00
Key	2.00	to 10.00		to	6.00	to 15.00
Carnations	3.00	to 5.00	1.50	to 2.00	2.00	to 4.00
Cattleyas	30.00	to 75.00		to 50.00	50.00	to 75.00
Dendrobium formosum		to 50.00		to		to
Lilies, Longiflorum	6.00	to 8.00	12.50	to 15.00	8.00	to 10.00
Lilies, Speciosum	4.00	to 8.00		to 8.00		to
Callas	10.00	to 12.00	12.50	to 15.00	15.00	to 20.00
Lily of the Valley	2.00	to 4.00	4.00	to 6.00	4.00	to 6.00
Snopdragon	8.00	to 6.00		to	4.00	to 10.00
Daffodils	.50	to 1.50		to 2.00	1.00	to 3.00
Narcissi, Paper White	1.50	to 2.00		to	2.00	to 3.00
Roman Hyacinths		to		to		to
Freesia	1.00	to 2.00		to	1.00	to 3.00
Tulips	1.50	to 3.00	2.00	to 5.00	3.00	to 4.00
Calendulas	1.00	to 3.00		to	1.00	to 3.00
Sweet Peas	.10	to .75	.30	to 1.00	.40	to 1.50
Violets	.30	to .40		to .30	.50	to .75
Marguerites	1.00	to 3.00		to	.50	to 1.00
Gardenias	2.00	to 35.00		to	5.00	to 25.00
Adiantum	1.00	to 1.50	1.00	to 1.50	1.00	to 1.50
Smilax	12.00	to 20.00	12.50	to 15.00	15.00	to 25.00
Asparagus Plumosus, & Spreng. (100 Bchs.)	25.00	to 35.00	25.00	to 35.00	25.00	to 50.00

WILLIAM F. KASTING Co. Wholesale Florists

568 570 WASHINGTON STREET - BUFFALO, N. Y.

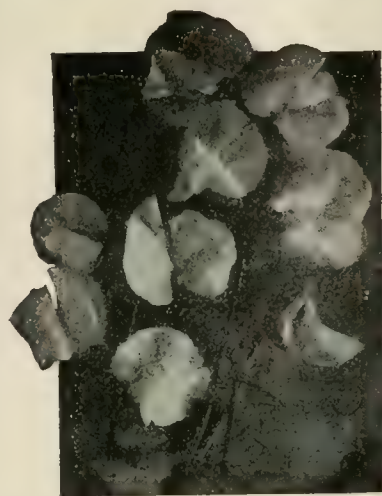
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184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER of

CUT FLOWERS



SWEET PEAS

For after Easter Weddings Sweet Peas in all their splendor, wonderful quality Spencers, all shades, plenty of the delicate pinks, including the popular Yarrowa.

\$1.00, \$1.50 and \$2.00 per 100, with a limited supply of extra long at \$2.50 per 100

GARDENIAS, \$2.00 and \$3.00 per dozen

VALLEY, \$5.00 and \$6.00 per 100

S. S. PENNOCK-MEEHAN CO.

THE Wholesale Florists of PHILADELPHIA

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117 W. 28th St.

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1608-1620 Ludlow St.

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Franklin & St. Paul Sts.

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1216 H St., N.W.

Flower Market Reports

The market is slow and **BOSTON** has been slow all week and there is nothing at the time of going to press to indicate what effect the Easter trade will yet have on the heavy surplus with which the market is flooded. Only one item has changed since our report last week—that is carnations. Where they have disappeared to is not in evidence but they are out of sight and the market price has doubled for the time being. Callas have advanced slightly. Other than that nothing has transpired. There are many lilies of inferior quality and they are hard to move at any price.

Trade has been fairly **CHICAGO** good for the closing weeks of Lent and it is generally conceded that that event now makes little difference with the sale of flowers. Stock is still too plentiful for prices to be high and every one expects more or less to go to waste, but by far the greater part is sold and to fairly good advantage. The street vendors are again at the corners and the ten-cent stores are doing a thriving counter business with flowers, while great trucks of lily plants are seen going to the department stores for the special Easter sales. There is so much offered that is not good enough for shipping trade that every avenue is needed to move the stock coming into this market, and there are flowers enough to supply all branches of the trade, the high grade stock not being lowered in price because of the poorer grades. Southern shipments now coming are confined to poeticus narcissi, daffodils and tulips and tend to lower the prices of corresponding home-grown stock. Common ferns now sell for \$3.50 per 1,000 to out of town customers and \$3.00 for local trade.

Easter business

CINCINNATI promises to be good.

The supply is large and is meeting with an active demand. Roses are fairly plentiful, also sweet peas and carnations. The Easter lily

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

	CINCINNATI April 2		CHICAGO April 2		BUFFALO Mar. 26		PITTSBURG Mar. 26	
Roses								
Am. Beauty, Special	50.00	to 60.00	50.00	to 60.00	40.00	to 50.00	50.00	to 60.00
" " Fancy and Extra	30.00	to 40.00	30.00	to 40.00	30.00	to 40.00	30.00	to 40.00
" " No. 1 and culls	8.00	to 25.00	4.00	to 25.00	5.00	to 25.00	15.00	to 25.00
Russell, Euler, Mock	5.00	to 40.00	5.00	to 40.00	10.00	to 15.00	10.00	to 25.00
Hadley	5.00	to 10.00	5.00	to 10.00	6.00	to 12.00	10.00	to 25.00
Arenberg, Hoosier Beauty	6.00	to 15.00	4.00	to 15.00	6.00	to 10.00	10.00	to 15.00
Ward	5.00	to 10.00	4.00	to 12.00	3.00	to 6.00	6.00	to 12.00
Killarney, Radiance, Taft	4.00	to 15.00	4.00	to 12.00	3.00	to 10.00	6.00	to 15.00
Ophelia, Sunburst, Hillingdon	6.00	to 15.00	4.00	to 15.00	4.00	to 10.00	6.00	to 15.00
Key	5.00	to 10.00	5.00	to 10.00	5.00	to 12.00	10.00	to 15.00
Carnations	3.00	to 5.00	2.00	to 6.00	2.00	to 3.00	4.00	to 6.00
Cattleyas	60.00	to 75.00	40.00	to 60.00	40.00	to 50.00	60.00	to 75.00
Dendrobium formosum	10.00	to 15.00	10.00	to 15.00	10.00	to 12.00	10.00	to 15.00
Lilies, Longiflorum	10.00	to 15.00	10.00	to 18.00	10.00	to 12.00	10.00	to 15.00
Lilies, Speciosum	8.00	to 15.00	10.00	to 15.00	8.00	to 12.00	10.00	to 15.00
Callas	8.00	to 15.00	10.00	to 15.00	8.00	to 12.00	10.00	to 15.00
Lily of the Valley	6.00	to 10.00	5.00	to 6.00	6.00	to 7.00	4.00	to 6.00
Snapdragon	6.00	to 12.50	5.00	to 10.00	5.00	to 8.00	4.00	to 8.00
Daffodils	2.00	to 4.00	2.00	to 4.00	2.00	to 3.00	3.00	to 3.00
Narcissi, Paper White	3.00	to 3.00	3.00	to 3.00	2.00	to 3.00	3.00	to 3.00
Roman Hyacinths	3.00	to 4.00	3.00	to 4.00	2.00	to 3.00	3.00	to 3.00
Freesia	3.00	to 4.00	3.00	to 4.00	2.00	to 3.00	3.00	to 3.00
Tulips	3.00	to 5.00	2.00	to 4.00	2.00	to 3.00	3.00	to 5.00
Calendulas	3.00	to 4.00	2.00	to 3.00	2.00	to 4.00	3.00	to 4.00
Sweet Peas	.75	to 1.50	.75	to 2.00	.60	to 1.50	.75	to 2.00
Violets	.75	to 1.50	.90	to 1.00	.30	to .50	.50	to 1.00
Marguerites	.75	to 1.00	.50	to 1.00	1.00	to 2.00	2.00	to 3.00
Gardenias	15.00	to 25.00	15.00	to 25.00	15.00	to 25.00	15.00	to 25.00
Adiantum	15.00	to 20.00	15.00	to 20.00	15.00	to 20.00	15.00	to 20.00
Smilax	15.00	to 20.00	15.00	to 20.00	15.00	to 20.00	15.00	to 20.00
Asparagus Plu. & Spreu. (100 Bhs.)	25.00	to 50.00	25.00	to 50.00	20.00	to 30.00	40.00	to 50.00

cut is very large. A fair amount of daffodils, tulips and hyacinths is available and gladioli now are regular factors in the day's market. Excellent snapdragons are coming in. Blooming plants for Easter are in an unusually good condition this year and the supply is large.

There has been very little business done this week in comparison with the heavy receipts of flowers in the wholesale district and the consequent congestion makes the booking of local Easter orders on anything except the rarer specialties a slow process. The retailers are not worrying much about their cut flower stock for the big day but are giving their atten-

tion and their store space almost exclusively to the plant business, which promises to be fully up to previous records. A scarcity of plants at the wind-up is looked for by many but he would be a bold optimist who would predict a cut flower famine or talk advanced prices on general stock.

Stock came in in greater abundance during the past week but the demand is pretty good and everything moved off well although at moderate prices. The quality all around is high grade. In roses the Russells, Hadleys and Shaws are especially fine. Ophelia is also very good. The carnation market is in healthy condition but prices

(Continued on page 469)



IN CHICAGO

For the Retailer or for the Grower

KENNICOTT BROS. CO.

Wholesale Cut Flowers

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J. E. POLLWORTH, Sec'y and Gen'l Mgr.

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Wholesale Commission Florist
Choice Cut Flowers

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55 and 57 West 26th Street

Telephone No. 755 Farragut New York

WM. P. FORD

Wholesale Florist

107 W. 28th Street, NEW YORK

Telephone 5335, Farragut.

Call and inspect the Best Establishment
in the Wholesale Flower District.

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WHOLESALE FLORIST

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CONSIGNMENTS SOLICITED

PHONE 608 FARRAGUT NEW YORK
609

JOHN YOUNG & CO.

WHOLESALE FLORISTS

53 WEST 28th STREET NEW YORK CITY

Consignments Solicited

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THE KERVAN COMPANY

Ferns, Mosses, Wild Smilax, Galax,
Lencothoe, Palmetto, Cycas, both fresh
cut and prepared.

Laurel, Hemlock, all Decorative Evergreens.

Feb. 1913 { } Mar. 24. 119 W. 28 St., New York
1913

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Brooklyn's Foremost and Best

WHOLESALE COMMISSION HOUSE

A First Class Market for all CUT FLOWERS

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A Full Line of ALL CUT FLOWERS.
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THOMAS TRACEY, Mgr. 611 Broadway, ALBANY, N. Y.

WHOLESALE ONLY

SAVE TIME AND MONEY BY SENDING YOUR ORDERS TO US

Prices Right. Consignments Solicited. Telephone Connection

Centrally Located, The Hub of the Flower Market Section

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Telephone 2483 Farragut

ORCHIDS - - GARDENIAS

HEADQUARTERS for the entire output of the

BEECHWOOD HEIGHTS NURSERIES, of Bound Brook, N. J.

PAUL MECONI — Wholesale Florist — NEW YORK

Telephone Nos. 3864 and 8364 Madison Square

57 WEST 26th STREET

A GOLD MEDAL is not expected by us for doing our duty by our consignors and customers

We have 22 years' experience behind us

FANCY GRADE ORCHIDS, SEPTEMBER MOON, AMERICAN BEAUTY, PRIMA
DONNA AND ALL OTHER ROSES, LILIES, CARNATIONS, VIOLETS,
ASPARAGUS AND SMILAX and all other Seasonable Flowers.

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Phones: Farragut 558, 2036 and 2037

101 West 28th Street, NEW YORK

NEW YORK QUOTATIONS PER 100. To Dealers Only**ROSES AND CARNATIONS**

	Last Half of Week ending Mar. 31 1917		First Half of Week beginning April 2 1917	
American Beauty, Special	30.00	to 40.00	30.00	to 40.00
" " Fancy and Extra	20.00	to 25.00	15.00	to 25.00
" " No. 1 and culls.	4.00	to 10.00	4.00	to 10.00
Russell, Euler, Mock	1.00	to 8.00	1.00	to 8.00
Hadley	2.00	to 50.00	2.00	to 50.00
Arenberg, Hoosier Beauty	1.00	to 8.00	1.00	to 8.00
Ward	1.00	to 8.00	1.00	to 8.00
Killarney, Radiance, Taft	1.00	to 6.00	1.00	to 6.00
Ophelia, Sunburst, Hillingdon	1.00	to 8.00	1.00	to 8.00
Key	2.00	to 12.00	2.00	to 12.00
Carnations	1.00	to 2.00	1.00	to 2.00

WALTER F. SHERIDAN

Wholesale Commission Dealer in

CHOICE CUT FLOWERS

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Telephone—3532-3533 Madison Square

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Satisfactory and Profitable.

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Frank H. Traendly

Charles Schenck

TRAENDLY & SCHENCK

Wholesale Florists

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Consignments Solicited

WALTER R. SIEBRECHT CO.

Incorporated

Wholesale Commission Florists

Orchids, Gardenias and Many Unusual
Flowers of Quality

114 West 28th Street
NEW YORK

HENRY M. ROBINSON CO. OF NEW YORK

WHOLESALE FLORISTS

55-57 West 26th Street

Telephones, 13—8510 Madison Square

MAURICE L. GLASS, Treasurer

Consignments Solicited

Flower Market Reports

(Continued from page 467)

are not very high. Recent bright warm weather is bringing them along rather too freely. Sweet peas were never better and while they dragged a little early in the week trading improved later and good prices were realized. Cattleyas are still on the scarce side and have reached the dollar mark on Easter bookings. Lilies are rather too plentiful and are going a little slow, but the demand for callas is excellent. The quality of the latter is unusually good at present. There are lots of bulbous flowers especially tulips and daffodils. The southern grown daffodils are very redundant indeed and much of these arrive in rather poor condition.

PITTSBURGH All augers well for a highly successful Easter. Everything now points to the best of flowers and plenty of them. Roses and hyacinths especially, are of surpassingly fine quality.

ST. LOUIS This market was well supplied during the past week but trade was quiet. War excitement seems to put a damper on business. Transient trade fell off considerable. Easter prospects are that with bright weather a big supply is assured, with perhaps a shortage in fancy stock of roses. Bulbous material is expected to be enough to go around.

WASHINGTON The advent of hot weather has brought a large quantity of stock of all kinds into the market during the week before Easter and to some extent prices were more or less broken. There were far more good Easter lilies than could be normally absorbed. Roses have improved in quantity and quality and are quite good. So many carnations came into the market that the price dropped far below normal. Sweet peas are coming in in enormous quantities and they can be had for little or nothing. Orchids have been scarce and the price has advanced to \$12 per dozen. The situation with respect to plumosus is somewhat easier and all ferns now are fairly plentiful. On the other hand, green galax leaves have advanced to \$20 per thousand.

The committee of the Connecticut legislature on appropriations was asked at its hearing on March 15 to favor a measure appropriating \$1,150,000 for the state park commission for the purpose of acquiring more lands for state parks. The bill also provides for an appropriation of \$15,000 for expenses. Lucius F. Robinson of Hartford, a member of the park commission, said Connecticut had lagged behind in the matter of preserving park areas. This state, above all others, should take the initiative in park development.

REED & KELLER Florists' Supplies

We manufacture all our Metal Designs, Baskets, Wire Work & Novelties and are dealers in Decorative Glassware, Growers and Florists' Requisites

Chicago Flower Growers' Association

Wholesale Growers of Cut Flowers and Plants

182 N. WABASH AVE., CHICAGO

Complete Line of Quality Cut Flowers and Greens

EVERYTHING SEASONABLE — PRICES REASONABLE

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American Beauties, Orchids, Valley, Carnations. All the novelties in the Cut Flower Market furnished on short notice. Prices quoted on application. No retail orders accepted. Flowers shipped out of Boston on early trains.

STORE OPEN FOR BUSINESS AT 6 A. M. TELEPHONE MAIN 2698.

HERMAN WEISS WHOLESALE FLORIST

Can handle shipments of growers' product satisfactorily Would like to hear from Growers of Snapdragons and Sweet Peas, etc., for the New York trade.

106 West 28th St., NEW YORK

Tel. Farragut 3068

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending Mar. 31 1917		First Half of Week beginning April 2 1917	
Cattleyas.....	25.00	to 60.00	25.00	to 75.00
Dendrobium formosum.....	.....	to 50.00	.....	to 50.00
Lilies, Longiflorum.....	3.00	to 6.00	3.00	to 8.00
Lilies, Speciosum.....	3.00	to 8.00	2.00	to 6.00
Callas.....	4.00	to 6.00	4.00	to 6.00
Lily of the Valley.....	1.00	to 4.00	1.00	to 4.00
Snapdragons.....	1.00	to 8.00	1.00	to 5.00
Daffodils.....	1.00	to 1.50	1.00	to 1.50
Narcissi, Paper White.....	1.00	to 1.50	1.00	to 1.50
Roman Hyacinths.....	.....	to .....	.....	to
Freesia.....	.50	to 2.00	.50	to 2.00
Tulips.....	1.00	to 2.00	1.00	to 3.00
Calendulas.....	1.00	to 2.00	1.00	to 2.00
Sweet Peas.....	.10	to 1.00	.10	to 1.00
Violets.....	.75	to .40	.15	to .40
Marguerites.....	1.00	to 2.00	1.00	to 2.00
Gardenias.....	3.00	to 35.00	3.00	to 35.00
Adiantum.....	.50	to 1.00	.90	to 1.00
Smilax.....	15.00	to 20.00	15.00	to 25.00
Asparagus Plumosus, & Spreng (100 bunches).....	15.00	to 35.00	15.00	to 35.00

J. J. COAN, INC.

115 WEST 25TH STREET
New York

Tel., Farragut 5413-5891

EVERYTHING IN CUT FLOWERS
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Telephone 2618-2617-2616, Main.

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Shipping Orders Carefully Filled.

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NEW YORK

Established 1888

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We Solicit Consignments of New
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ORCHIDS

Cut Flowers of All the Leading Varieties
in their Season.

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BOUND BROOK, N. J.

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Display Advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

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APHIS PUNK

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AURICULA PLANTS

William Sim, Cliftondale, Mass.
Hybrid Yellow Polyanthus.
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ASPARAGUS

Asparagus Plumosus Seedlings, \$1.00 per 100, \$5.00 per 1000. Ready May 1st. COLLINGDALE GREENHOUSES, Collingdale, Pa.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
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BAY TREES

BAY TREES. Write for wholesale price-list.
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BOX TREES—Standards, Pyramids and Bush. Price list on demand.

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Lilium Harrisii.
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Ralph M. Ward & Co., New York City.
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Arthur T. Boddington Co., Inc.,
New York City.
Bulbs and Roots.
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C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK BRANCH, 8-10 Bridge St.

CANNAS

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Wood Bros., Fishkill, N. Y.
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CARNATION STAPLES

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 1000 for 35c.; 3000 for \$1.00 postpaid. I. L. PILLSBURY, Galesburg, Ill.

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William F. Kasting Co., Buffalo, N. Y.
"Hamburg Late White" Chrysanthemum.

DAHLIAS

Peony Dahlia Mrs. Frederick Grinnell.
Stock For Sale.
JOHN P. ROONEY, New Bedford, Mass.

20 Dahlia tubers, all different, correctly labeled, postpaid, \$1.00. Six sets, (120 bulbs), \$5.00. Bulb and Seed catalog free BUNGALOW GARDENS, Netcong, N. J.

ORDERS BOOKED ANY TIME
For Fall or Spring delivery. Wholesale and Retail. Send for Catalogue. NORTHBORO DAHLIA & GLADIOLUS GARDENS, J. L. Moore, Prop., Northboro, Mass.

NEW PAEONY DAHLIA

John Wanamaker, Newest, Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to PEACOCK DAHLIA FARMS, Berlin, N. J.

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Choice Flowering and Foliage Plants.
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High Grade Plants for Retail Florists.
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F. R. Pierson, Tarrytown, N. Y.
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Scott's Ferns, 2½ in. pots.....\$5.00 per 100
" 3 in. pots..... 8.00 "
Boston " 2½ in. pots..... 5.00 "
ANTON SCHULTHEIS, College Point, N. Y.

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Pulverized Manure Co., Chicago, Ill.
Wizard Brand Cattle Manure.
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GERANIUMS

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S. A. Nutt Geraniums, rooted cuttings,
 \$1.25 per 100, \$10 per 1000; unrooted cut-
 tings, 75c. per 100, \$6 per 1000. **W. E.**
ALLEN, 185 Exchange St., Leominster,
Mass.

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B. Hammond Tracy, Cedar Acres,
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Greenhouse glass, lowest prices. JOHN-
STON GLASS CO., Hartford City, Ind.

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 Pecky Cypress.

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Florists' Hall Asso. of America.
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HEATING APPARATUS

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 Surplus Stock of Evergreens, Shrubs
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Lord & Burnham Co., New York City.

A. T. Stearns Lumber Co., Neponset, Mass.

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English Ivy—Rooted cuttings, 90c. per
100 prepaid. Extra strong from soil 6-8 in.
\$1.25. CHAS. FROST, Kenilworth, N. J.

LILY BULBS.

Chas. Schwake & Co., New York City.
 Horticultural Importers and Exporters.
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LILY OF THE VALLEY PIPS

Chas. Schwake & Co., Inc., New York City.
 Hohmann's Famous Lily of the Valley Pips.
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National Nurseryman Publishing Co., Inc.
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In writing to Advertisers kindly mention Horticulture

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ORCHID PLANTS

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Importers and Growers of Orchids.
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Lager & Hurrell, Summit, N. J.
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HASSALL & CO., Orchid Growers and
Raisers, Southgate, London, England. Im-
mense stock of Cattleyas.

PAINTS AND PUTTY

The Dwelle-Kaiser Co., Buffalo, N. Y.
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Metropolitan Material Co., Brooklyn, N. Y.
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PANSY PLANTS

200,000 large, stocky (Sept. transplanted),
field-grown blooming pansy plants, Henry
Mette's strain, all salable stock, satisfaction
guaranteed. \$1.25 per 100, \$11.50 per 1000.
Cash. Prompt shipping.

BRILL CELERY GARDENS,
KALAMAZOO, MICHIGAN.

PETUNIAS

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
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PEONIES

Peonies. The world's greatest collection.
1200 sorts. Send for list. C. BETSCHER,
Canal Dover, O.

Complete manuals on the Peony, Iris and
Phlox. 25 cents each in stamps. C. S.
HARRISON, York, Nebraska.

PECKY CYPRESS BENCHES

Metropolitan Material Co., Brooklyn, N. Y.
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A. T. Stearns Lumber Co., Boston, Mass.

PHLOX

CLEARING OUT SALE OF HARDY
PHLOX, IN VARIETIES
Including 2,000 F. G. von Larsburg, 3,000
Miss Lingard. Write for information and
prices. OLD TOWN NURSERIES, South
Natick, Mass.

PIPE AND FITTINGS.

Kroeschell Bros. Co., Chicago.
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King Construction Company,
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Shelf Brackets and Pipe Hangers.
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PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

PLANT AND BULB IMPORTS

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August Rolker & Sons, New York City.
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ROSES, CANNAS AND SHRUBS.
THE CONARD & JONES COMPANY,
WEST GROVE, PA.

SASH

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SEASONABLE PLANT STOCK

R. Vincent, Jr. & Sons Co., White Marsh,
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SEEDS

Carter's Tested Seeds.
Seeds with a Pedigree.
Boston, Mass., and London, England.
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Burnett Bros., 98 Chambers St., New York.
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Seeds and Seed Service.
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Roman J. Irwin, New York City.
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Garden Seeds.
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Thomas J. Grey Co., Boston, Mass.
Seeds, Bulbs, Implements.
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Fottler, Fisk, Rawson Co., Boston, Mass.
Seeds for the Florist

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. LAGER
& HURRELL, Summit, N. J.

STRAWBERRY PLANTS

Strawberry Plants, \$2.50 per 1000. Cata-
logue free. BASIL PERRY, Georgetown,
Delaware.

SWEET PEA SEED

Ant. C. Zvolanek, Lompoc, Calif.
Gold Medal of Honor Winter Orchid Sweet
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VASES

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VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
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COMET TOMATOES—Fine plants grown
from Roney's special forcing strain in
sterilized soil. Strong 2¼ inch plants, \$2.50
per 100; \$22.50 per 1000. Cash please.
J. J. CLAYTON & SON, West Grove, Pa.

VENTILATING APPARATUS

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Chicago Flower Growers' Association,
182 N. Wabash Ave.
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Est. 1765

Pot Makers for a
Century and a Half**HEWS****STRONG
RED
POROUS****POTS****World's Largest
Manufacturers****Standard, Azalea, Bulb, Orchid, Fern, Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.****Write for Catalogues
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CAMBRIDGE, MASS.
NEW YORK, N. Y.****WHOLESALE FLORISTS
Detroit****Michigan Cut Flower Exchange, 264-266
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MOWERS.****Coldwell Lawn Mower Co., Newburg, N. Y.,
and Chicago, Ill.
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For page see List of Advertisers.****PATENTS**
Trademarks
and Copyrights

Difficult and rejected cases specially solicited. No misleading inducements made to secure business. Over 30 years' active practice. Experienced, personal, conscientious service. Write for terms. Address,

SIGGERS & SIGGERS

PATENT LAWYERS

**Box 9, National Union Building
Washington, D. C.****WANTS, FOR SALE, Etc.****HELP WANTED**

WANTED AT ONCE—Two men with some experience, to work under foreman. Single Americans preferred. No drinking men. State wages wanted, experience and age. **MRS. A. I. COLBURN, 68 Graham St., Gardner, Mass.**

WANTED—For private estate, experienced single man as first assistant under glass. Must understand grape growing and be a successful grower of the general run of plants for cut bloom. Good wages to first-class man. Give full particulars and references, stating salary expected with room. "C," care of **HORTICULTURE**.

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FOR SALE—Glass, 6x8 to 10x12, single thick, \$1.85, double thick, \$2.85 per box. **METROPOLITAN MATERIAL CO., 1297-1325 Flushing Ave., Brooklyn, N. Y.**

FOR SALE—Two greenhouses, one 190 x 28, one 185 x 31; and dwelling house, six rooms with bath, hot and cold water, steam heat, half-acre of land. Address **JOSEPH FARRELL, 197 Broadway, Somerville, Mass. Tel., Som. 1517-W.**

FOR SALE—Two windmills, steel skeleton type, at Ithaca, N. Y.; 400 boxes 14-inch double glass; quantity wrought iron pipes; boilers; ventilating apparatus and sash; 4 complete greenhouses, 25 x 175; sell very cheap; remove at once. **I. SUSSERMAN, 104 Ridgewood Ave., Newark, N. J.**

**Plant Propagation, Greenhouse
and Nursery Practice****By M. G. KAINS**

We have had many inquiries from time to time for a reliable and up-to-date book on plant propagation, but were always at a loss to find any publication that we could recommend. The subject has been dealt with in fragmentary manner only in books that have come to our notice. So it is well that this new work has been issued, especially as it is both comprehensive and practical, and it should meet with a ready sale among plantmen, nurserymen and gardeners. There are nineteen chapters covering in detail topics of germination and longevity of seeds, propagating by buds, layering, cuttings, grafting, etc., fruit tree stocks, clones, etc., and there are eight pages of condensed cultural instructions in tabulated form, covering annuals and perennials from seed, woody plants, evergreens, vines, bulbs and tubers, greenhouse and house plants, ferns, palms, water plants, orchids and cacti. The illustrations are numerous, comprising 213 figures and half-tone plates. There are 322 pages well bound and on heavy paper, teeming with helpful information. It is a book which no cultivator can afford to do without. It is worth many times its price. Copies can be supplied from the office of **HORTICULTURE** at publisher's price, \$1.50.

Horticulture Publishing Co.**147 SUMMER ST., BOSTON, MASS.**

King Greenhouses

KEEP SUMMER WITH YOU THE WHOLE YEAR ROUND

On account of their sturdy special construction which permits of great strength without the need of heavy shadow casting supports, these houses are so warm and sunny that they are filled with a riot of bloom and fruit when Jack Frost has stripped the garden of its beauty.

The ventilating and heating systems are the result of years of experience in building for professional growers. Things just have to grow in a King.

Ask us for any of the following: Catalogue showing Commercial Type Greenhouses, Catalogue showing Greenhouses for private estates, Catalogue showing Garden Frames and Sash for private estates.

KING CONSTRUCTION COMPANY, 28 King's Road, North Tonawanda, N. Y.

All the Sunlight. All Day Houses.

BRANCH OFFICES: New York, 1476 Broadway Boston, 113 State Street Scranton, 307 Irving Avenue
Philadelphia, Harrison Building, 15th and Market Streets



Gulf Cypress Greenhouse Materials

We sell all the parts necessary for the construction of a complete greenhouse. For those who want to do their own erecting. We mill all parts to fit. All you have to do is to assemble them.

Put Your Greenhouse Problems Up To Us

We go anywhere in the U. S. to submit plans and prices.

Metropolitan Material Co.

1297-1325 Flushing Ave., Brooklyn, N. Y.

WE ARE SPECIALISTS IN GREENHOUSE GLASS PAINTS and PUTTY

IROQUOIS WHITE (Semi-Paste).
Most Perfect White Paint Made.

Be sure to get our estimates.

The DWELLE-KAISER Co.

241 Elm St., BUFFALO, N. Y.



If you need a boiler in a hurry telephone or telegraph at our expense

KROESCHELL BOILERS

SEND FOR CATALOG

Kroeschell Bros. Co., 466 W. Erie St., Chicago



THE ONLY PERFECT

LIQUID PUTTY MACHINE

WILL LAST A LIFETIME
\$1.25 each

Adjustable—can and frame separate—easily cleaned. Frame all one piece, of malleable iron. More practical and more easily operated than any other.

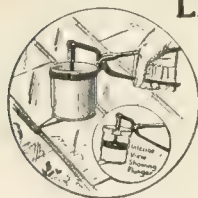
SEAL TIGHT LIQUID PUTTY

\$1.35 per gallon

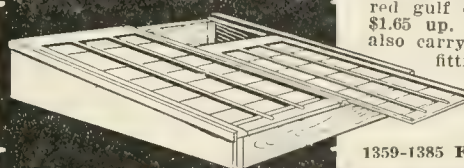
In 10 gallon lots. \$1.40 per single gallon.

METROPOLITAN MATERIAL CO.

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JACOBS GREENHOUSE SUPPLIES



Hotbed Frames from 80c. up; very best clear red gulf cypress. Glazed Hotbed Sash from \$1.65 up. Double light Sash up to \$4. We also carry glass, pecky cypress, boilers, pipe, fittings, putty, etc.—in fact everything for greenhouse construction. Get our prices today—they're right!

S. Jacobs & Sons

1359-1385 Flushing Ave. BROOKLYN, N. Y.

Dreer's Peerless Glazing Points

For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts. The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid. Samples free.

HENRY A. DREER,
714 Chestnut Street,
Philadelphia.

FULL
SIZE
No. 2

Use the only shading

E. A. LIPPMAN

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Morristown, New Jersey

Send for Booklets

STANDARD FLOWER POTS

If your greenhouses are within 500 miles of the Capitol, write us; we can save you money.

W. H. ERNEST

29th & M Sts., Washington, D. C.



DREER'S

Florist Specialties.
New Brand. New Style.
Hose "RIVERTON."
Furnished in lengths up to 500 ft. without seam or joint.

The HOSE for the FLORIST
1/2-inch, per ft., 15 c.
Reel of 500 ft., "14 1/2 c.
2 Reels 1000 ft., "14 c.
1/2-inch, "13 c.
Reels, 500 ft., "12 1/2 c.

Couplings furnished
HENRY A. DREER,
714 Chestnut St.,
PHILADELPHIA, PA.

GET OUR CATALOGUE

On Ventilating Apparatus and Greenhouse Fittings

ADVANCE CO., RICHMOND, IND.

JACOBS GREENHOUSES

BUILT TO LAST

For three generations we have been builders of greenhouses. The vast experience accumulated in those years means trustworthy service to our customers. Prices of material have been advancing steadily—it looks as though present prices will not hold much longer. Protect yourself, by ordering now for future delivery. We also furnish greenhouse supplies at rock-bottom prices. Write us—today—for our catalog and advice.

S. JACOBS & SONS

1359-1385 Flushing Ave. Brooklyn, N. Y.



"Our Greenhouse Is a Model of Perfection." — A. M. Robertson



We erected this Metropolitan Greenhouse for Mr. M. Burrill on his estate at Jericho, L. I.

The contract for this Metropolitan patented best eave, full iron frame greenhouse with bent eave vestibule and stucco service house, also included the masonry, flower box and trellis work.

Being partitioned in the middle, this greenhouse has two compartments, which can be heated and controlled separately.

Mr. A. M. Robertson, superintendent of this estate writes that "it is a model of perfection."

Metropolitan service goes far beyond the mere mechanical process of construction. It strives constantly to increase the producing power of the owner's investment in his greenhouse.

PUT YOUR GREENHOUSE PROBLEMS UP TO US

We go anywhere in the U. S. to submit plans and prices.

Metropolitan Material Co.
PATENTED GREENHOUSES

Patented Greenhouses.

1297-1325 Flushing Ave., Brooklyn, N. Y.

FOLEY MATERIALS

ARE THE BEST FOR

Iron Frame, Pipe Frame or Wood Frame GREENHOUSES

Estimate and Sketch Submitted Promptly

THE FOLEY GREENHOUSE MFG. CO.

3275 West 31st Street, CHICAGO, ILL.

HOT BED GLASS GREENHOUSE

BEST BRANDS LOWEST PRICES

SHARP, PARTRIDGE & CO.

2263 Lumber Street, CHICAGO

MOST PRACTICAL Shelf Bracket



On this Shelf Bracket 2 6-inch boards; or 2 1-inch, or 1 1/2-inch pipes are placed, and can be clamped to either ridge or purlin columns.

20c
With Bolts
Complete

Non-Kink Woven Hose



In any length (one piece) with couplings, 15c. per foot. Unequaled at the price. Remnants 15 to 30 feet, coupled, 10c. per linear foot. Unequaled at the price.



Hose Valve—70 Cents

All brass except the hand wheel. Has a removable leather disk which is easily replaced to keep water tight. Stuffing box prevents leaks at stem.

Metropolitan Material Co.
PATENTED GREENHOUSES

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When writing to advertisers kindly mention **HORTICULTURE**.

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For Greenhouse Glazing

USE IT NOW

F. O. PIERCE CO.

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NEW YORK

Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.



Evans 20th Century Arm

Most up-to-date arm on the market. Proof that it is better than any other is that others tried to imitate it. Write for our 1916 catalog just out.

JOHN A. EVANS CO.
Richmond, Ind.

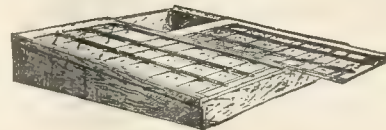
The Florists Hall Association rate of insurance from Nov. 1st, 1916 to Nov. 1st, 1917 will be twenty cents per hundred square feet of single thick glass and eight cents per hundred square feet of double thick glass. For particulars address **JOHN G. ESLEER, Sec., Saddle River, N. J.**

GLASS

AND HOT-BED SASHES

Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.



HOTBED SASH at 80c. each
Made of best grade Gulf cypress.

Glazed Hotbed Sash from \$1.65 up.
Double Light Sash up to \$4.00.

We carry a large stock of all sizes. Also Hotbed and Greenhouse Glass. Write for estimate.

Metropolitan Material Co.
PATENTED GREENHOUSES

1297-1325 Flushing Ave., Brooklyn, N. Y.



"Upper level" view of Geo. Marshall Allen's house at Convent, N. J.



Lower level, showing the valuable storage space gained.



Erected for A. H. Bull, Elizabeth, N. J.

PRIVATE

Two Interesting Houses

QUITE one of the most unique houses we have built in many a day, is the one with the shingle-thatched workroom, on the grounds of Geo. Marshall Allen, at Convent, N. J. Frederick Parker is the gardener. You may happen to know him and his wire hair dog.

Being located on a steep grade, it was possible to have an upper and lower level.

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Vol. XXV
No. 15
APRIL 14
1917

HORTICULTURE



Giant Polyanthus Primroses

View in One of Wm. Sim's Houses, Cliftondale, Mass., at Easter, 1917

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All of the above and many others are fully described in our current Wholesale List, January to June, which will be mailed upon request only to persons engaged commercially in Horticulture.



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Philadelphia, Pa.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toil, we ought to blame the culture, not the soil."—Pope.

Begonias for the Holidays

Begonias should be kept growing right along. Be careful that they do not receive any check by careless culture. Early propagated plants of Cincinnati and Lorraine should now be well rooted in 2½-inch pots and ready for a shift into 3½-inch or 4-inch. Continue to use a compost largely composed of not too much decayed leaf mold and sand, with a little old manure. Stand them on a bench where they will continue to get some bottom heat and have a night temperature of 60 degrees. On all good days spray overhead and see that they do not become dry at the roots. A last batch of leaves can now be put in, but after this date we cannot get so steady bottom heat as during the winter, and propagation becomes more difficult. Propagation from shoots, however, can be successfully carried out until June. Pot off leaf cuttings as soon as they are nicely rooted.

Carnations

The control and prevention of insects and carnation disease depends much upon ideal cultural conditions from first to last. Successful passing over of the critical periods depends largely on correct temperature, ventilation and watering. We are coming now to the season when the plants are attacked by aphids, thrips or red spider. Look them over carefully and fumigate at least every ten days. The best growers regard a night temperature of 50 to 52, 10 to 15 degrees higher during sunshine, and during dark or cloudy days 55 to 57 degrees, is high enough. When outside conditions will permit keep the air sweet by plenty of ventilation. Do not let them dry out too much at the roots, as with the increased length of the day and stronger sun they will dry out quite soon. A good syringing on all good days will keep down red spider and thrips.

Care of Seedlings

When the seedlings are in rough leaf they should be pricked off immediately. Procrastination is abhorred by practical and successful growers. Deprive them of air and they will turn yellow. Give them too much water and they rot off. All these conditions can be avoided if the seedlings have ample room in which to grow. The temperature should be 65 degrees. This will give quick grown but sturdy seedlings providing they are not neglected. In transplanting be careful not to injure the primary root, and avoid crushing the stem. Allow a distance of at least two inches from plant to plant and three inches from row to row. Air space and light help to grow strong healthy plants. When seedlings have a nice quantity of roots and three

or four well developed leaves they should be potted into 3-inch pots.

Chrysanthemums

Where you are short of stock keep up propagation without delay. The chrysanthemum is a cold blooded plant and cuttings will root in the sand without any bottom heat whatever. The best success can be had in a north house on which the direct sunlight does not fall. Cuttings will have to be sprayed and watered to keep them from wilting. If allowed to become badly wilted two or three times the tissues get hard and the cuttings will never make satisfactory plants. When cuttings are rooted in an average greenhouse where a mixture of plants are grown and air is applied, different conditions will prevail. Pot off just as soon as they are nicely rooted and keep shaded for a few days, when they will stand full sun. When they have taken a good hold on the soil place them out in a cold frame, which will answer better for them at this time of the year. Keep nicely watered and sprayed during bright weather. When the pots become well filled with roots shift into larger size.

Cyclamens

The glass must now be shaded and do not use any more fire heat than is necessary. Dampen floors and below the benches freely when the heat is on to guard against thrips. Continue to keep the plants in a fairly warm house; 52 or 55 degrees at night will be a good temperature. Young cyclamen plants are still mostly in flats. Keep the surface soil stirred and the plants will grow much better than when you allow a coat of slime or moss to cover it. Shift into 3-inch pots before they are too much crowded in the flats. Use plenty of leaf-mold not too much decayed. This should form half the potting medium. Add a little dried manure and sand; let the balance be loam, light rather than heavy. Keep well up to the glass so they will grow short and robust. On all good days give plenty of ventilation.

Reminders

Keep fuchsias on the move; if allowed to flower now they will not be so free in growth.

A little bottom heat is useful for starting cannas, but is not necessary after they are rooting freely.

Never allow green fly to obtain a hold on young smilax plants; fumigate lightly on its first appearance.

Heat is the worst enemy of chrysanthemums at any time, especially in the earlier stages. The cuttings strike readily without it.

Next Week:—Asters; Camellias; Place Stock in Frames; Summer Climbers; Swainsonas; Reminders.

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Horticulture

Publicity among the kind of readers reached by this paper is THE SORT OF PUBLICITY THAT PAYS.

HORTICULTURE

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APRIL 14, 1917

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Reduced imports

We understand that some of the leading importers of European azaleas, bays, araucarias and similar florists' nursery stock have cancelled orders previously booked for this spring's delivery, despairing of being able to get the goods over in fit condition if at all. The wise florist, thus forewarned, will take measures to supply himself for next season with a sufficiency of homegrown material and not count upon the foreign supply until he sees it.

Helpful bulletins

The series of popular home gardening bulletins issued during the past few weeks is one of the most directly useful things the U. S. Department of Agriculture has done for the people. These bulletins give evidence of careful preparation. They are simple, easily understood and reliable. Any seedsman or any florist dealing in seeds and young vegetable plants should send to the Office of Information of the Department of Agriculture at Washington and procure copies of these documents and print them for distribution among his customers as a business proposition.

Community spraying

The necessity of spring spraying of fruit and shade trees becomes more apparent every successive season and probably will continue to increase. The expense of a serviceable spraying outfit is considerable and in quite a number of places a plan of community spraying and pruning has been adopted in order to make the cost as low as possible to the owners of small places. This is something that the local florist should not allow to pass out of his hands. Possessed of an adequate outfit and doing the work with scientific proficiency and at a reasonable price he can control the situation indefinitely and make the spraying adjunct a very profitable department of his business.

Seed prices and demand

A New York publication in an otherwise well-written article intimates that the high price of seeds this season will be a potent factor in preventing the raising of greater food crops this year. We would question whether the theory will so work out. The disproportion between the first cost of seeds and the present market value of all farm and garden produce is such that the initial cost should deter no prospective gardener from buying seed—indeed it is more likely to whet his appetite and develop a keener realization than ever before of the indispensability and value to him of good seed. There can be no question that the demand will exceed by far the available supply of all the principal vegetable seed stocks, so it is futile to begin complaining. Better, rather, make a quick move and secure needed supplies regardless of cost. Otherwise it will be a case of go without any.

To increase food crops

As the situation now looms up the food crop question takes on a very practical aspect for many of HORTICULTURE's readers, especially those who are identified with the seed and small fruit industries. It is stated that there are approximately ten million potential home gardeners in this country—including four million boys and girls between the ages of nine and sixteen years who have access to back yards and vacant lots where they might devote a part of their spare time out of school to garden work, and six million older boys and girls and adults who also could give an hour or two daily through the summer to similar pursuits—who under intelligent direction and oversight would be able to add considerably more than half a billion dollars' worth of the very best food of the nation's yearly supply. Gardenless homes have hitherto been the eyesore of our American settlements. Perhaps the grave emergency which now confronts us and practically compels us to cultivate our unoccupied ground may yet turn out to have been "a blessing in disguise." Let us hope so. It is quite obvious that the nurseryman and seedsman will be called upon to work this season as never before. "He that runs may read."

CHRYSANTHEMUMS FOR EXHIBITIONS

A Paper Read Before the Stamford Horticultural Society by Adam Patterson.

The successful grower of fine chrysanthemums for exhibition purposes is not developed in a day, week or year. He must commence at the bottom and learn by experience and practice the fundamental principles which underlie the profession. While the good derived from listing, or reading what another has to say on any subject cannot be overestimated, one must first obtain a good deal of practice in this line before he is in a position to understand what the other fellow is doing. The chrysanthemum grower should take delight in the study and cultivation of his plants as well as in the admiration of the beauty of their form, bloom and foliage.

In order to start right do not leave anything to memory; keep a record of your different operations and at the end of the year you will be able to find out the good and bad points practiced. But of the different varieties started set aside a few plants to be experimented upon. Here you will have an opportunity to test your composts, fertilizers, the taking of the buds, etc. If for any reason you do not succeed there will be no serious loss. Experimental work is of tremendous importance to the chrysanthemum grower and when intelligently pursued will not fail to pay for all the efforts put forth in this direction.

In regard to taking the cuttings I have found it best to propagate as near as possible the last week in February. When selecting the cuttings avoid long weak growths or hard woody cuttings. The best cuttings are those of a moderately soft growth. The cuttings should come out of the sand when they have made roots about half an inch long, as they only deteriorate if left there longer.

Before I go any further I will take up the question of compost. The beginning of all success is to a greater or less degree in having good compost. I always make it a point to get my compost made up early in the autumn. This gives you a chance during good weather to get soil and manure together, and yet leaving plenty of time to work it up into a desirable condition before storing. Compost consisting of two-thirds turfy loam to one-third of decomposed cow manure put into a pile, and then turned over and chopped up at intervals of about every two or three weeks until you have it in good condition, will make the foundation for the growing of fine chrysanthemums later on. It must be remembered that good soil and manure is the first general item to be considered under the head of cultural methods.

Doing things on time and when they need doing applies to the growing of chrysanthemums perhaps with more force than in growing any other plant. When your cuttings have made enough of roots get them out and pot up, for the sooner you can get them into the light and air and the cooler and harder you can grow the young plants the better flowers they will

produce. I always pot them into 2½ inch pots and when they are well established place out into a cold frame on sifted ashes, hereby keeping the frost away. They will appreciate this condition by showing a dark green foliage and sturdy growth not to be had in the house. About the end of March or just as soon as they have made a fair amount of roots, I shift into 3 inch pots. From the 10th to the 15th of April I shift again into 4 inch pots. Always remember as the shift becomes larger you will want to use more drainage. This is very important, so you will secure good and effective drainage in every pot. The next shift is into 6 inch pots, and about the 10th of June I shift into their last pots which are 8 inch. When shifting into these pots leave as much space as possible for feeding and top dressing as they may need it. After they are potted into these pots they can be placed where they are to grow in the house. These pots should be placed on a bed of sifted coal ashes, which will keep the worms out and also keep them cool and clean. When they have had every care and attention up to this you are on a fair way toward success.

The next thing of importance is staking and tying. I stretch a wire about 4 feet high over the bench so as to give the stakes some support. During their period of growth they should be kept nicely tied up from time to time.

In producing fine chrysanthemums it should always be remembered that they will need plenty of ventilation at all times, but the growth must be guided entirely by the condition of the weather, as two successive days at any season of the year may demand a difference in the management. It must be remembered that ventilation, which causes a direct draft of cold arid air through the plants is sure to make them suffer, so use judgment at all times. It is in the autumn that requires the greater care for it is then that the weather conditions have to be taken into account. When the flowers begin to open a drier atmosphere is called for so it is always better to have a little heat run through the pipes during September as we are sure to have cool and damp weather, but always keep air on night and day.

Every grower frequently finds it difficult to keep his temperature right. It is quite natural for the inside temperature to be affected by the prevailing outside temperature, but it is to the grower's advantage to reduce these extremes as much as possible. I generally like to keep my house as near 50 degrees at night as the conditions will allow. During the dark and dull weather I let the temperature run up to 60 with air on. This helps to dry the atmosphere of the house, which is important during the fall months.

From May and up to the end of August the plants should be syringed frequently, two or three times a day, but always do the last syringing early

enough to have the plant dry off before nightfall. During September you can reduce the syringing to once a day. When they begin to show color discontinue altogether.

During all their growth chrysanthemums will require care as to watering. When the pots show signs of being dry give them a good watering, but never allow them to become bone dry, or on the other hand excessively wet. Watering is one of the most particular points to watch in chrysanthemum culture. In pot culture watering ought to be attended to two or three times a day, watering only those that are dry, using a can if the time permits.

As the plants become pot-bound artificial feeding will have to be resorted to. Watch the plants carefully, and one will soon be able to judge when to start feeding. Aim to have ripe wood and good foliage, and then you can feed safely. Feeding can continue until the blooms are half developed.

Taking the bud is the one thing that will require care and study. It is very hard to fix dates for bud taking. This will have to be governed to a large degree by the climatic conditions. Most buds can be taken after the 15th of August, with fair results.

Chrysanthemums, like all other plants, are subject to disease, but this appears most frequently where a wrong course of treatment in their culture has been followed, or by neglect in any way. Always make it a point to start with nothing but healthy stock. If any of them show the least trace of disease discard just as soon as you discover it. The presence of some species of fungi is a direct reflection upon the skill or care of the grower, as mildew and rust and certain diseases may frequently be traced to the lack of suitable cultural conditions, such as proper ventilation, watering, overfeeding, etc. On the other hand when such conditions are favorable to their growth, fungus diseases will more or less be absent. Where mildew appears there is nothing better than blowing sulphur through your plants. For rust, on its first appearance, spray with ammoniacal mixture every ten days. This will help to check it; also, keep plenty of ventilation on and see that the atmosphere is kept dry even if you have to use fire heat.

In order to keep down the aphids you will have to fumigate at least once a week. When the flowers begin to open there is nothing better than Nico fume paper.

Before chrysanthemums are exhibited they should be placed in water at least 36 hours in a cool dark place where the temperature stands at about 40 degrees. This will help to give substance in every way.

"Twinkle, twinkle little spud
Ex-cavated from the mud,
Up above our purse so high
Like a diamond in the sky"

CLUBS AND SOCIETIES

NEW YORK FLORISTS' CLUB.

The April meeting of the New York Florists' Club held last Monday evening was an enthusiastic one and well attended considering that it was on the day following Easter, 75 members being present. Seventeen new members were elected as follows: Arthur F. Bloodgood, Hawthorne, N. Y.; F. E. Conine, Stratford, Conn.; Daniel Coughlin, Glen Cove, N. Y.; August J. Stotz, Clifton, N. J.; John J. Marquardt, Middle Village, N. Y.; Joseph Trepel, Brooklyn, N. Y.; Henry Baldwin, Mamaroneck, N. Y.; James A. Sullivan, Jersey City, N. J.; A. M. Merian, Rye, N. Y.; William Koehler, Astoria, N. Y.; S. Entracht, New York, N. Y.; Adolph Kruhm, New York, N. Y.; Victor Alzen, New York, N. Y.; Samuel J. Heming, Brooklyn, N. Y.; Theodore Malandre, New York, N. Y.; Henry Rudolph, Essex Falls, N. J.; Ayres Booth, New York, N. Y.

Committees reported as follows: Flower Show Committee—Gross receipts, \$44,000; space sold, \$15,438; trade tickets, \$6,044; adv. in program, \$4,000; net results will be about the same as last year. The next show will be March 14-21, 1918. Executive committee on S. A. F. convention—Much progress being made. Dinner Committee—Affair a success in every way. A resolution was passed requesting the Board of Trustees to look into the matter of club funds—i. e., to invest some of it in good safe bonds, as savings banks now refuse to take deposits from clubs such as this.

The new Flower Show Committee was appointed as follows: Chas. B. Weathered, chairman, W. R. Pierson, P. W. Popp, C. H. Totty, F. H. Traendly, John Young, Harry Weston, L. J. Reuter, Max Schling, G. E. M. Stump. J. N. Hoff was not present to give the promised lecture on "Humus," but John Scheepers, at short notice, gave an illustrated lecture on "Tulips."

Exhibits and awards were as follows: Sweet peas by Jas. F. Barclay, Black Hall, Conn., highly commended; Spanish iris and Darwin tulips "Matchless" by P. W. Popp, highly commended; sweet peas by Roman J. Irwin, variegated antirrhinum, by Chas. W. Knight, sweet peas by S. van Riper, Dundee Lake, N. J., carnation "Lucy" by Floral Hill Nurseries, Chatham, N. J., vote of thanks to each.

NORTH SHORE HORTICULTURAL SOCIETY.

The North Shore Horticultural Society held its regular meeting on April 6th at Manchester, Mass. Prof. Scherer, head of the Scientific Research Department of the Davey Institute of Tree Surgery, gave a very interesting lecture on the White Pine Blister Rust. By request he also spoke briefly on the chestnut blight and the fungus of the horse chestnut. A good discussion followed. It was voted that the Society offer at once to the National Government their new building for

Meetings Next Week

Monday, April 16.

Detroit Florists' Club, Bemb Floral Hall, Detroit, Mich.
Houston Florists' Club Chamber of Commerce Rooms, Houston, Tex.
New Jersey Floricultural Society, Orange, N. J.

Tuesday, April 17.

Gardeners' and Florists' Club of Ontario, St. George's Hall, Toronto, Can.
Minnesota State Florists' Association, Minneapolis, Minn.
Pennsylvania Horticultural Society, Horticultural Hall, Philadelphia, Pa.

Wednesday, April 18.

Rhode Island Horticultural Society, Public Library, Providence, R. I.
Tarrytown Horticultural Society, Tarrytown, N. Y.

Thursday, April 19.

Essex County Florists' Club, Kreuger Auditorium, Newark, N. J.
New Orleans Horticultural Society, Association of Commerce Bldg., New Orleans, La.
North Westchester County Horticultural Society, Mt. Kisco, N. Y.
Tacoma Florists' Association, Macabee Hall, Tacoma, Wash.

Friday, April 20.

North Shore Horticultural Society, Manchester, Mass.

whatever use it can make of it during the period of the war. It was also voted to appoint a committee to take care of the matter of home gardens for the district of Wenham, Hamilton and Ipswich. The building commissioner reported splendid progress. Lord & Burnham Co. have presented the Society with two boilers for heating the building.

It is planned to hold one general exhibition on August 8 and 9, and probably several special exhibitions later in the fall. The following gentlemen are on that committee: Martin H. Warner, chairman, William Canning, Murdo MacKay, Martyn Eyberse and Gustave Ericson.

A vote of thanks was tendered Prof. Scherer for his lecture and to Herman Sanford and William Till for their report as delegates to the Davey Convention.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Department of Plant Registration.

Objections having been filed to the name "Aurora" handed in for registration of a new Canna by the Conard & Jones Co., West Grove, Pa., said firm wishes to withdraw same and substitute the name "Evening Star."

As no objections have been received public notice is hereby given that the registrations of new Cannas, Snow Queen, Druid Hill, and Morning Glow, by the Conard & Jones Co., West Grove, Pa., same become complete.

JOHN YOUNG, Secretary.

April 7, 1917.

NATIONAL FLOWER SHOW COMMITTEE.

A meeting of the National Flower Show Committee was held at the Hotel Biltmore, on the afternoon of Saturday, March 17th, with the following members present:

George Asmus, chairman, Chicago, Ill.; Charles H. Totty, Madison, N. J.; A. Farenwald, Roslyn, Penn.; Patrick Welch, Boston, Mass.; Thomas Roland, Nahant, Mass.; John Young, secretary, New York City; J. J. Hess, treasurer, Omaha, Neb.; R. C. Kerr, Pres. S. A. F. & O. H., Houston, Texas.

There were also present: A. L. Miller, V. P., S. A. F. & O. H., Jamaica, N. Y.; William J. Keimel, Elmhurst, Ill.; William R. Nicholson, Framingham, Mass.; J. F. Ammann, President American Carnation Society, Edwardsville, Ill.; S. S. Pennock, President American Rose Society, Phila., Penn.

The business of the meeting was confined to a discussion of a proposed closer affiliation of the Rose and Carnation Societies with the work of the National Flower Show Committee, looking to an increase in the interest attaching to National Flower Shows. After a thorough threshing-out of various questions the following resolutions were passed unanimously:

"That the American Rose Society and the American Carnation Society be asked and be empowered to send a delegate to attend the regular called sessions of the National Flower Show Committee to assist in arranging for the coming National Flower Show in St. Louis.

"That the American Rose Society be permitted to underwrite the schedule for the rose classes to the extent of \$2,500.00; that they be responsible for same, and, in return, will participate in any possible profits from the Flower Show on a pro-rata basis, after the balance of the premium list and expenses are paid. Should the exhibition show a loss, the American Rose Society will assume a pro-rata share of said loss.

"That the American Carnation Society be permitted to underwrite the schedule for the carnation classes to extent of \$1,000; that they be responsible for same, and, in return, will participate in any possible profits from the Flower Show on a pro-rata basis, after the balance of the premium list and expenses are paid. Should the exhibition show a loss the American Carnation Society will assume a pro-rata share of said loss."

JOHN YOUNG, Secy.

AMERICAN GLADIOLUS SOCIETY

The eighth annual exhibition of the American Gladiolus Society will be held under the auspices of the New York Botanical Society, New York Horticultural Society, and New York Florists' Club, at the Museum Building, Botanical Gardens, Bronx Park, August 23, 24, 25, 26, 1917.

Through the energy and influence of Vice-President T. A. Havemeyer, the



The accompanying picture shows the Holland bulb garden arranged by J. Scherpers & Co., at the New York Spring Show. The hyacinths and tulips comprised quite a few rare varieties and the color scheme was exquisite and much admired by visitors.

Society meets in New York for the first time. The premium list is the largest and most liberal ever issued by any gladiolus society in the world and it is earnestly hoped that gladiolus growers, both commercial and private, will show their appreciation by taking part in the exhibition. Preliminary schedules, comprising 94 regular and special classes, are now ready and copies may be had by addressing H. Youell, Secretary, 538 Cedar Street, Syracuse, N. Y.

HOLYOKE AND NORTHAMPTON FLORISTS' AND GARDENERS' CLUB.

The regular meeting was held on April 3, with E. J. Canning, Northampton, a goodly number of members being present. A letter was read from a preparedness committee of Holyoke inviting the co-operation of the Club, and President Strugnell was appointed to represent the Club on that committee. (It looks like working overtime with the hoe this summer.) Alex. Haeseler, of the Smith College greenhouses, read a paper on Cinerarias and Primulas, which brought out a good discussion. We were pleased to welcome an old member in the person of Clark Thayer of the Department of

Floriculture of Cornell, who has temporarily succeeded Prof. Nehrling at the M. A. C. Mr. Thayer gave an interesting account of the trials of hardy phlox which have been conducted at Cornell for the past three years. Some very fine spikes of Silver Pink Snapdragon were exhibited by G. H. Sinclair & Son. H. E. Downer showed pots of Narcissus King Alfred and Tulip Wm. Copeland. H. E. D.

CLUB AND SOCIETY NOTES.

The recent flower show held under the auspices of the Toronto (Ont.) Gardeners' and Florists' Association in St. George's Hall was a great success.

Des Moines, Ia.—A guarantee fund of \$1,500 is being subscribed among the florists of Des Moines for the big flower show next November, to be held under the auspices of the Iowa State Florists' Association. The Auditorium has been selected and all committees have been appointed. J. S. Wilson is chairman of the executive committee.

Governor Holcomb of Connecticut has named Friday, April 20, as Arbor and Bird Day in that state.

Visitors' Register

St. Louis—W. C. Ahrens, O'Fallon, Ill.

Philadelphia—George Berke, Atlantic City, N. J.; J. D. Brenneman, Harrisburg, Pa.; Chas. L. Schmidt, Harrisburg, Pa.; J. Fallon, Roanoke, Va.

Chicago—H. F. Dorner, Urbana, Ill.; Frank Gorley, St. Louis, Mo.; Marion Uhlschmidt, St. Louis, Mo.; R. H. Marquardt, of E. Welke Co., Milwaukee, Wis.; H. Philpott, Winnipeg, Man.; Wm. Dilger, Detroit, Mich.; J. Aldous, Iowa City, Iowa; W. L. Peglon, with Kaber Bros., La Porte, Ind.; Jos. Tuchis, Rock Island, Ill.

AN IDEAL GARDEN ROSE.

J. D. Eisele, of Dreer's, Riverton, N. J., says that the biggest seller in a new rose that they have ever handled is Los Angeles, and this he regards as good judgment on the part of the public because there can be no question of the success of this new comer as a garden rose. If it were only a forcing variety it would make a record run.

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CYCLAMEN GIGANTEUM

Strong transplanted seedlings, 4 to 5 leaves, ready for 2½ inch pots: Glory of Wandsbek, Christmas Cheer, Daybreak, Rose von Marienthal, Pure White, White-Pink eye. For the past 7 years we have been improving the Cyclamen, so we feel confident that you can get no better strain anywhere; \$8.00 per 100, \$75.00 per 1000.

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FLORICULTURAL PATHOLOGY IN THE UNIVERSITY OF ILLINOIS.

The work in Floricultural Pathology is directed along three lines,—the diagnosis and suggested treatment of diseases of floricultural plants, the diagnosis of plant diseases other than floricultural ones upon a request for such information, and the experimental investigation of those diseases which at present are causing the most serious loss to the grower. A report upon some phases of this work which may have its practical application follows below.

CARNATION YELLOWS. Much of the conflicting evidence upon this disease among growers and pathologists is due to the similarity between "Yellows," "Bacteriosis" and "Stigmonose." In fact, at certain stages of development it is almost impossible to distinguish between the three without recourse to the microscope and the pure culture methods of the pathologist. A report of the work upon "Yellows," giving the characteristics which distinguish this disease from Stigmonose and Bacteriosis, may be found in The Florists' Exchange, Vol. XLIII, No. 6, and will also be found in the proceedings of the American Carnation Society for 1917. Since the preparation of that paper, the data which has been assembled has resulted in additional information.

If the forcing of the carnation in the early part of the season has resulted in "cropping," and the removal of all flowers has left only the basal portions of the stems, the young shoots developing at this time have always come in yellowed. The tendency to come in yellowed seems to be especially marked if cloudy weather prevails when the young shoots are making a rapid growth, although the results of this may be seen by none except the most careful observer until after the flowering buds start to form weeks after. The reason for this is that at first the yellowed areas are very inconspicuous and can hardly be seen except when held between the eye and the source of light. Later, as the leaf grows and becomes thicker, these spots do not grow in thickness with the leaf and, consequently, appear sunken and are conspicuously yellow or almost white. With an abundance of sunlight the tendency to come in yellowed seems reduced. Yellowed plants have been produced experimentally by the re-

moval of all flowers from plants which have been allowed to crop. The removal of the flowers has resulted in the removal of a great area or leaf surface which is necessary for plant growth. The few leaves remaining on the basal portions of the branches are not sufficient to perform the normal functions of the plant. On the other hand, plants which have never cropped and have always been permitted to retain an average amount of foliage have never become yellowed. The evidence seems to indicate that yellows is an "indication" of improper treatment. The improper treatment mentioned above has produced badly yellowed plants. Other improper conditions are probably capable of producing it.

Suggestions offered for the prevention of this disease are the discarding of unusually susceptible varieties, the taking of cuttings from perfectly healthy and vigorous plants, an early and frequent pinching rather than an occasional severe pinching, the prevention of the cropping of the individual plant as well as of the plants as a whole, an evidence of vigorous forcing during the early part of the season, and, individual attention to each plant to prevent the loss of an undue amount of foliage upon the removal of all flowers.

It is thought, from the observation and the experience of many of the best growers, that an excess of water in the soil and atmosphere at a time when plants are severely or partially cut back will result in the forcing of water, intended for a large leaf area, into the reduced area and result in injury. This may be partially responsible for the more pronounced appearance of yellows during cloudy weather. This point, while suggestive, remains

to be proven experimentally, but might well be kept in mind by the grower. While the work upon yellows is by no means completed, it is deemed wise at this time to give whatever information we have to the grower. One thing to be emphasized is that a plant must receive proper treatment, both in regard to soil fertility and methods of culture, at all stages of growth if it is hoped to keep it in a healthy condition. Disease prevention is always more logical and satisfactory than disease cure.

THE FUSARIUM WILT OF CARNATIONS. This disease, known as "dry stem rot" and "branch wilt," varies in severity in different sections of the country and often becomes epidemic in nature. In the southern states this is a serious disease which, when once started, shows up year after year, being responsible for the death or failure of plants to develop after benching. In the North and East, the disease is more spasmodic but often becomes epidemic. Work, here, in connection with a survey of the fungi present in greenhouse soils, has shown that this Fusarium is present in abundance in all carnation soils. Infection, however, seldom takes place if the temperature is held as low as is consistent with the full development of the carnation and if the spacing allows ample circulation of air around each plant. The fungus is most active at high temperature,—a condition to be avoided. Soil sterilization is impractical, for the fungus may be brought into the houses anew on the soil clinging to transplanted plants. However, if the disease has once become serious in a house, it is recommended that the plants transplanted to the field be placed in soil which has not been grown to carnations for some time, and that the

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houses and benches be thoroughly sterilized with a strong fungicide before bringing in fresh soil which has never been grown to carnations. Absolute cleanliness and the destruction of all dead parts of plants are essential for the holding of this disease in check.

This fungus is often serious as a cause of damping off in the propagating bench, as it is quite common to find 95 per cent. of the dead or undeveloped cuttings attacked by this fungus. Ordinarily, it need not be feared if fresh, clean sand is used in the propagating bench.

At present, work is being done to determine if the *Fusarium* which cause the wilts of tomatoes, potatoes, etc., will attack the carnation. The application may be seen, but until we have complete results, no recommendations in this direction are offered.

In addition to the above, work is being continued upon aster wilt and yellows, and an attempt is being made to produce a rust resistant snapdragon. Now diseases in the form of a bacterial decay of *Cyclamens*, a crown blight of *Ligustrum*, and a disease of *Canna* root stock have been under observation. Serious diseases, other than floricultural ones have also come to our attention.

We wish to remind you, at this time, that the Division of Floriculture of the University of Illinois is always ready to examine any diseased plants which you may send in and to suggest remedies whenever possible.

E. M. R. LAMKEY,
Instructor in Floricultural Pathology.

PITTSBURGH'S EASTER DISPLAY.

Easter signalized the opening of Pittsburgh's three Easter shows, each of which had its own unique distinctive qualities of beauty and originality. The Phipps Conservatory celebrated its twenty-fourth natal anniversary in the midst of many thousands of admirers. Special attention was given the orchid exhibition, which, of course, also included the rare collection recently presented to the conservatory by Dr. John Fremont Shafer. As usual, the lily and rose houses were favorites.

As far as the youngsters were concerned the piece de resistance was "The Springtime of Life," involving a playground with a complete miniature reproduction of the American national game with peopled grandstand, "fans," and all complete. As usual, Mr. Moore's French hydrangeas at West Park were of surpassing quality, while, if possible, the rose, azalea and lily houses were even finer than in previous years. Both the Phipps conservatories are under the regime of Superintendent George W. Burke.

The Henry J. Heinz conservatory in the far East End of the city was again the Mecca of thousands of floral pilgrims. The show house was converted into a beautiful sunken garden effect. There was also a delightful display of orchids and other flowers of the various department sections.

MASSACHUSETTS AGRICULTURAL COLLEGE NOTES.

The total enrollment in the classes in Floriculture for the new term is 37. The following courses in floriculture

are to be given this term: Greenhouse Management, Commercial Floriculture, Garden Flowers and Seminar. The latter course is the preparation of a thesis and is open only to seniors specializing in Floriculture.

Plant Propagation, Greenhouse and Nursery Practice

By M. G. KAINS

We have had many inquiries from time to time for a reliable and up-to-date book on plant propagation, but were always at a loss to find any publication that we could recommend. The subject has been dealt with in fragmentary manner only in books that have come to our notice. So it is well that this new work has been issued, especially as it is both comprehensive and practical, and it should meet with a ready sale among plantmen, nurserymen and gardeners. There are nineteen chapters covering in detail topics of germination and longevity of seeds, propagating by buds, layering, cuttings, grafting, etc., fruit tree stocks, clones, etc., and there are eight pages of condensed cultural instructions in tabulated form, covering annuals and perennials from seed, woody plants, evergreens, vines, bulbs and tubers, greenhouse and house plants, ferns, palms, water plants, orchids and cacti. The illustrations are numerous, comprising 213 figures and halftone plates. There are 322 pages well bound and on heavy paper, teeming with helpful information. It is a book which no cultivator can afford to do without. It is worth many times its price. Copies can be supplied from the office of HORTICULTURE at publisher's price, \$1.50.

Horticulture Publishing Co.

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FLORICULTURE AT IOWA STATE COLLEGE.

A Floral Art Exhibit and Spring Flower Show was held at the Iowa State College, at Ames, Iowa on Friday and Saturday, March 30th and 31st. This was the first exhibit of its kind ever held at the college and it was well received, making a distinct impression upon people as to the real value of flowers in our daily life. Many were the expressions of delight made by the numerous visitors and among the many comments were heard such remarks as "the finest thing ever done on the college campus," "the most novel exhibit of flowers ever seen in the state," "a truly artistic exhibit."

The various ways in which cut flowers are used, also a great many different flower and color combinations were on display at the exhibit. The object of the exhibit was not only to make a beautiful display but also to educate people in the use of flowers in the home and for personal adornment. There were to be seen all types of flower arrangement from the simple bud vase up to large bridal shower bouquet of valley and gardenias. The numerous novel exhibits proved to be of great interest to the visitors and gave a characteristic uniqueness and originality to the show.

Among the exhibits there was one which attracted the attention of both young and old; it was a complete set of wedding arrangements including the bridal shower bouquet, bridesmaids' shower bouquet, maid-of-honor bouquet, flower girl basket, boutonnières for bridegroom and ushers, and the bridal table. Other exhibits on display were numerous vase and basket arrangements, flower bowl arrangements, corsages, trellis boxes, floral art frames, table decorations, stork baskets, presentation baskets, plant baskets, fern dishes, and also vases, pottery and other ornamental accessories. A large group of spring flowering plants arranged in bank-like form occasioned much admiration and many were the questions asked as to the names of the different plants used in the group.

The exhibit which was a display of the floral work of the students assisted by C. J. Polity of Des Moines, was under the direction of Prof. A. S. Thurston who is in charge of the floricultural work at the college. The class in amateur floriculture showed the various ways in which flowers might be used in the home, while the professional students were responsible for the exhibits of more specialized character.

DES MOINES AUTUMN FLOWER SHOW.

Several of the florists of Iowa met in Des Moines, March 27, for the purpose of discussing the staging of a fall flower show. At this meeting committees were organized and plans were laid for the Des Moines Autumn Flower Show which is to be held Nov. 8, 9, and 10. Another meeting will be held April 11 to hear reports of committees and to take up further business. A guarantee fund of \$2,000 or more is being raised among the florists



NATIONAL ROSE FESTIVAL.
Garden Exhibit by H. F. Michell Co.

of the state. The premium list will carry about \$3,000 in prizes as well as several special prizes.

The preliminary schedules will soon be ready for distribution. It is hoped that a great many of the florists of the middle west will plan to enter in the various classes. It is the hope that this will be one of the biggest and best fall shows that the middle west has seen, but it all depends upon the co-operation of the florists of this section as to the fulfillment of this hope. These dates should be put down by the florists of the middle west as their red-letter days, and furthermore they should plan to be there with their exhibits.

The members of the executive committee are J. S. Wilson, chairman and manager; A. S. Thurston, vice-chairman; Wesley Green, secretary; A. J. Zwart, treasurer; M. J. Wragg, James Denmead, H. E. Lozier. The chairman of the other committees are: Finance, A. J. Zwart; premiums and rules, John Reardon; publicity and program, J. S. Wilson, Jr.; trade display, J. N. Albright; guarantee fund, A. J. Zwart; decorative, Alfred Lozier; growers' and nurserymen's display, H. J. Wragg; special premiums, A. J. Zwart; lectures, A. S. Thurston; music, A. H. Wilson; reception, A. S. Thurston; admission, Wesley Green.

NEWS NOTES.

New York.—Seizo Suzuki, of the Yokohama Nursery Co., started on April 2 on his journey home to Yokohama.

Dover, Del.—The greenhouse and other property of Wm. and Lena Shaeffer was sold at public auction on March 17 to James H. Hughes for \$900.

Hackensack, N. J.—The House of Flowers has opened a branch store in the Ricardo building, Hackensack road, Ridgefield Park, with Garret Koop in charge.

A JUNE OUTDOOR SHOW FOR BOSTON.

Elaborate preparations are being made by the Massachusetts Horticultural Society for an outdoor flower show such as London is accustomed to see, but which Boston has not seen since 1873. That year the society arranged a modest one on the Common, the third of its kind up to that date, and, although it proved a popular and financial success, it has had no place among the horticultural events of the city for forty-four years. A guarantee fund of about \$10,000 has been pledged to cover any possible deficit, so that no liability attaches to the Massachusetts Horticultural Society in the event, which is remote, that the admission fees should not cover the expenses.

The site selected for this June Garden is the three-acre triangular lawn in front of the Wentworth Institute on Huntington avenue, bounded on the other two sides by Ruggles street and Parker street. There will be huge tents along Huntington avenue, Ruggles street and Parker street and a large water garden pool and rock garden in the centre, with an orchestra stand and tea tent at one end.

Growers from practically every part of the State and from localities outside, will exhibit orchids, roses, rhododendrons, rock plants, aquatics and azaleas.

There will be no money prizes except such special prizes as may be offered by members or friends of the society. No expense of any kind will fall upon the society. The loss, if any, is to be borne by various subscribers, a dozen or more having already signed a promise to this effect. The exhibition will be open for two weeks.

Manhattan, Kan.—C. A. Scott, state forester, has resigned his position, and has purchased the greenhouses of Henry Moore.

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Eagle Grove, Ia.—John Buhner, two Moninger houses.

Newport, R. I.—Godfrey Loew, Stene-acre, range of houses.

Barberton, O.—O. C. Barber, two Lord & Burnham houses.

Lowell, Mass.—Lowell Cemetery, Lawrence street, one house.

Lincoln, Neb.—Frederick Eiche, South 20th street, one house.

NEWS NOTES.

Heightstown, N. J.—The Heightstown Improvement Association will hold an exceptional flower show next September.

Park Ridge, N. J.—The Koeppen place has been sold to a party from Elmhurst, L. I., who will build extensive greenhouses in the near future.

Wakefield, Mass.—The final meeting of creditors of C. C. Ball, Inc., is set for April 18, at 9.30 A. M., at the Registry of Deeds, East Cambridge, Mass.

Provincetown, Mass.—The Easter display in the show windows of William Newton formed one of the most attractive pictures ever seen in this town.

STATEMENT OF OWNERSHIP, MANAGEMENT, ETC., OF HORTICULTURE

As Required by the Act of Congress Aug. 24, 1912.

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Obituary

E. B. Grinnell.

E. B. Grinnell, for over fifty years engaged in the evergreen business, died at his home at 776 Elmwood avenue, Providence, R. I., Sunday, April 1st, at the age of sixty-nine years.

Patrick F. Conheeny.

Patrick F. Conheeny, a former employee of the late Thomas Galvin, at Newport, died on March 25. He had charge of the Newport Casino grounds for many years. He is survived by his widow and four children.

Thomas Martin.

"Tommy" Martin, many years in the employ of Traendly & Schenk, New York, as a salesman in their wholesale flower store, died last week after a long decline. He was well known and well liked among the frequenters of the wholesale district.



W. C. LANGBRIDGE.

D. P. Kerrigan.

Daniel P. Kerrigan, an employee of Wagland, the florist, died Tuesday evening, March 27, at Lawrence Mass. Deceased was born in Lawrence. He is survived by his mother, Mrs. Margaret Kerrigan, and two sisters, Miss Sadie Kerrigan and Mrs. Catherine Morrison.

A. J. Philips.

A. J. Philips West Salem, Wis., died at a hospital in La Crosse, Wis., on March 22, aged 83 years. Mr. Philips was a pioneer horticulturist and fruit grower of Wisconsin and served as secretary of the Wisconsin Horticultural Society from 1892 to 1898. A widow, three sons and two daughters survive him.

Peter L. Bogart

P. L. Bogart, for many years a prominent florist of New York City, died on Monday morning, April 9, after a lingering and painful illness. The funeral services on Wednesday night were attended by a large and representative number of the local florists' trade and floral tributes were many and beautiful. Mr. Bogart was a man of integrity and sterling character and enjoyed

the respect of the trade in the fullest degree. He was one of the few left of the old school of florists. The accompanying portrait was photographed a good many years ago but it is the most recent one available.

Henry K. Spence.

Henry K. Spence, for many years head gardener for Mrs. Harold Brown at Newport, R. I., was found drowned on Friday morning, April 6, off the stone pier on the south shore of the harbor by his son, William Spence, and Chief Yeoman William Vincent. He had suffered from stomach trouble for some time and probably left his home near where he was found at 5 in the morning. Mr. Spence was a Scotchman and stood high with his employer and among Newport people. He leaves a wife and six children, one boy being in the navy.

Mrs. H. C. Blewett.

Mrs. H. C. Blewett passed away at Desplaines, Ill., after a very brief illness. Mrs. Blewett was born in London, Eng., coming to this country with her husband 28 years ago and settling at once in Desplaines, where they bought a home and erected a range of greenhouses. Mr. and Mrs. Blewett won the respect of the community by their real worth and it was with keen regret that their friends learned of the death of Mrs. Blewett, who was ill with pneumonia but three days. Three sons and a daughter survive. Interment was in Park Ridge, Ill.

W. C. Langbridge.

Just as HORTICULTURE is about to go to press there comes a telegram announcing the death this Thursday morning, April 12, of W. C. Langbridge, traveling representative of the Jerome B. Rice Seed Co., Cambridge, N. Y. Mr. Langbridge has been critically ill for some time with diabetes and hardening of the arteries and his death was not unexpected. His was a splendid personality and no man in the trade had more sincere friends than did this lovable man. The news which we are now called upon to send out will bring poignant sorrow to many and his passing away is an irreparable loss to the American seed trade.

William C. Langbridge first saw the light of day some time during the year of 1860 on the island of Jamaica, West Indies, and as the climate later was found not suited to his state of health, he, together with his father and younger brother emigrated to New York. Mr. Langbridge was eleven years old when he came to New York and a few years after his arrival there became a member of the Shaker Community founded at Mt. Lebanon, N. Y., where he remained until 1888, filling many positions of trust. During the last four or five years of his career among the Shakers he was sole manager and the traveler for what was then known as the Shaker Seed Company, and besides had complete charge of the seed gardens and trial grounds carried on by that concern. It was here that Mr. Langbridge gained his first knowledge of the seed business and on leaving the Shaker Community associated himself with the Jerome B. Rice Seed Company.

Personal

Edward H. Goldenstein, Chicago, has left the firm of Langhout & Co., Sasenheim, Holland his interest having been purchased by W. Langhout.

Thomas Howden has resigned his position as gardener for Oliver Ames, Prides Crossing, Mass., and will go on a farm at Marlborough, Mass. Archie McDonald of Manchester, N. H., succeeds Mr. Howden.

George Foulsham, who has been superintendent on the W. B. O. Field place in Lenox, Mass., and is leaving to go into the florist business in Bethlehem, Pa., was given a farewell surprise party at the home of Mr. and Mrs. Edward J. Norman last Friday evening. There were present the superintendents of the different Lenox



PETER L. BOGART.

and Stockbridge estates and a number of friends from Lee and Pittsfield. Mr. and Mrs. Foulsham were present under the impression that the gathering was a surprise for one of the young ladies of their acquaintance, and not until Edward Jenkins began to get serious and personal in his remarks, which seemed only a matter of a little fun making at start, did they realize that the gathering was in their honor. Mr. Jenkins did an excellent job concluding with handing Mr. Foulsham a purse of \$125 in gold. Mr. Foulsham was very much affected but gathered himself and responded in a pleasing manner, and later, when speeches were being made again referred to the surprise of the occasion, his friendship with the Berkshire men and love for the region.

PATENTS GRANTED.

- 1,221,449. Receptacle for cultivating and preserving Flowers. Charles D. Hitchcock, Chicago, Ill.
- 1,221,672. Sectional Greenhouse. Thomas J. Callahan, Dayton, Ohio.



WEED KILLER

THE VERY NEWEST AND QUICKEST METHOD OF DESTROYING WEEDS, GRASS AND OTHER GROWTH IN GARDEN WALKS, GUTTERS, TENNIS COURTS, DRIVEWAYS, ETC.

This fluid absolutely destroys all weeds and other growth wherever applied, and its effect on the ground prevents the growth of fresh ones for a year and thus saves a great deal of time and labor, as no cutting, hoeing or hauling away of the weeds is required.

We manufacture the strongest line of DISINFECTANTS on the market.

CORRESPONDENCE SOLICITED

P.-L. CHEMICAL CO., 507-509 W. 19th St., New York

EDITORIAL EFFICIENCY THE MEASURE

Here's something interesting for advertisers who believe that the way to test the value of a medium is to glance at the paper stock, flip through the advertising section, and let 'er go at that.

E. J. Walker, president of the Walker Bin Company, of Penn Yann, N. Y., one of the largest manufacturers of bins in the country, says that he was "stung" through advertising by using a lot of publications that were not read—and were not read because they were not giving their readers helpful, constructive stuff.

Nowadays he selects his papers according to the appeal they have for readers, rather than according to the surface appeal they make to advertisers, and he is consequently getting results.

"Our experience of twenty years with trade papers," Mr. Walker wrote to *Class*, "had been expensive and most unsatisfactory.

"Being gluttons for information we attempted to analyze the failure to draw inquiries, for we had

1. Copy prepared by the trade papers, who should have the pulse of their readers under their thumb.

2. Copy prepared by expert writers, the specialists capable of analyzing blood pressures of readers.

3. Copy prepared by ourselves, using a line of arguments that had never failed, even in desperate cases.

"All failed to get results.

"Then a personal canvass among subscribers, with the searchlight of inquisitiveness, disclosed the real trouble.

"The subscribers were not readers.

"The reason was then analyzed and we found that some subscribers re-subscribed through habit—through the subtle influence of a premium—through the cleverness of a canvasser—through an appeal to vanity.

"No effort was being made by the publishers to ascertain why readers failed to read.

"Waste baskets were a veritable morgue for publications incased in their original shrouds, with none but the junkmen to claim the remains.

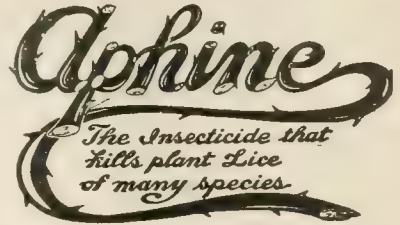
"Pick up the average trade paper and you'll find that the copy reads like an obituary. Instead of printing a limited amount of readable stuff, an attempt is made to cram it full of senile piffle to increase 'reading matter' so as to make the gullible advertiser clamor for space 'next to' this rubbish."

Class does not believe that this is a fair picture of the trade papers at large, nor even of those in the grocery field, to which Mr. Walker has special reference, as his experience was with publications in that line. The modern trade paper is well edited and actually develops reader interest.

The point for advertisers to consider, however, along with analyses of circulation and other purely technical and mechanical features, is whether the paper contains material which will justify its being read; whether the advertiser, if he were in the position of the subscriber, would spend time in going through the publication. This is a simple, easy test of publication value which few space-buyers think worthy of using—and yet use of it would enable advertisers to select winners every time, because every paper which is worth being read actually is.

Mr. Walker is not an opponent of trade paper advertising, as he is at present running a campaign in half and full pages in *The Seed World*, Chicago, in which he has secured fine results.

—*Class*.



The Recognized Standard Insecticide.

A spray remedy for green, black, white fly, thrips and soft scale.

Quart, \$1.00; Gallon, \$2.50.

FUNCINE

For mildew, rust and other blights affecting flowers, fruits and vegetables.

Quart, \$1.00; Gallon, \$3.50.

VERMINE

For eel worms, angle worms and other worms working in the soil.

Quart, \$1.00; Gallon, \$3.00.

SOLD BY DEALERS.

Aphine Manufacturing Co.
MADISON, N. J.



Save your plants and trees. Just the thing for greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrips, Red Spider, Black and Green Fly, Mites, Ants, etc., without injury to plants and without odor. Used according to direction, our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pets. Excellent as a wash for dogs and other animals. Relieves mange. Dilute with water 30 to 50 parts.

½ Pint, 25c.; Pint, 40c.; Quart, 75c.; ½ Gallon, \$1.25; Gallon, \$2; 5 Gallon Can, \$9; 10 Gallon Can, \$17.50.

Directions on package.

LEMON OIL COMPANY

Dept. S. 420 W. Lexington St., Baltimore, Md.

When writing to advertisers kindly mention **HORTICULTURE**.



NIKOTEEN

For Spraying

APHIS PUNK

For Fumigating

Ask Your Dealer for It.

NICOTINE MFG. CO.
ST. LOUIS

USE WIZARD BRAND MANURE

CONCENTRATED PULVERIZED

MANURE

Pulverized or Shredded
Cattle Manure
Pulverized
Sheep Manure

The Florists' standard of uniform high quality for over ten years. Specify: **WIZARD BRAND** in your Supply House order, or write us direct for prices and freight rates.

THE PULVERIZED MANURE CO.
34 Union Stock Yard, Chicago

IMP. SOAP SPRAY

Quarts, 55c. Gallons, \$1.65
Fives, \$6.50

Try with 24 parts water. Often effective weaker.

Ask your dealer or write

EASTERN CHEMICAL CO.
BOSTON, MASS.

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Kirby B. White, Detroit, Mich.; First Vice-President, F. W. Bolgiano, Washington, D. C.; Second Vice-President, L. L. Olds, Madison, Wis.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.—Convention at Detroit, June 19, 1917.

Washington, D. C.—The seed stores are doing a land office business incident to the campaign fostered by the Department of Agriculture, the newspapers and civic associations for the planting of back yards and vacant lots to reduce the high cost of living. In some instances the business has doubled itself over the same period of last year and at all stores the amateur trade has more than doubled. F. W. Bolgiano, Russell G. Balderson, P. Mann and M. Frank Ruppert are each quoted as of the opinion that the garden seed business is better than at any time in the history of the trade.

NEW CORPORATIONS.

Waterbury, Ct.—Leary the Florist, Inc., wholesale and retail florists, capital stock \$6,000. Incorporators, Andrew, Daniel J. and Ellen C. Leary.

Chicago, Ill.—Albany Nurseries, to deal in nursery stock, seeds, etc., capital stock, \$10,000. Incorporators, David Jacobson, H. H. Stridiron and Arthur R. Phillips.

CATALOGUES RECEIVED.

Glen Road Iris Gardens, Wellesley Farms, Mass.—Price List of Irises.

Fraser Nursery Co., Rochester, N. Y.—Special List of Boxed Lots in Cold Storage.

Joseph Breck & Sons, Boston, Mass.—Illustrated Catalogue of Agricultural Hardware, Machines, etc. 240 pages.

LET US QUOTE YOU PRICES

"A B C BRAND"

Lilium Giganteum Rubrum
Album Auratum

AMERICAN BULB CO.

172 No. Wabash Ave., - Chicago

PIN MONEY MUSHROOM SPAWN

8 lb. for \$1.00

Directions Included

WM. ELLIOTT & SONS
42 Vesey St., New York

SPRING BULBS

CANNAS, Dormant Roots

Packed 250 in a Case
Full cases at 1000 rate

Red-Flowering Cannas, Green Foliage

BEAUTE POITEVINE. 3½ ft.	100	1000
BLACK PRINCE. 4 ft.	2.00	17.50
CHARLES HENDERSON.	2.75	25.00
4 ft.	2.00	17.50
CHEROKEE. 4 ft.	1.50	14.00
CRIMSON BEDDEL. 3 ft.	2.75	25.00
DUKE OF MARLBORO. 4½ ft.	1.75	15.00
FURST BISMARCK. 4 ft.	1.65	15.00
CHANCELOER BULOW. 3 ft.	1.65	15.00
J. D. EISELE. 5 ft.	1.65	15.00
LOUISIANA. 6 ft.	1.65	15.00
METEOR. 5 ft.	12.00	100.00
MEPHISTO. 3½ ft.	1.65	15.00
MUSAFOLIA. 7 ft.	1.65	15.00
PRESIDENT CLEVELAND.	3 ft.	2.00
3 ft.	2.00	17.50
PRES. MEYER. 4 ft.	2.00	17.50
PILLAR OF FIRE. 6 ft.	2.00	17.50
TARRYTOWN. 3½ ft.	2.00	17.50

Yellow and Yellow Spotted

JOHANNA KANZLEITER. 4 ft.	1.65	15.00
GUSTAV GUMPPER. 4 ft.	3.75	35.00
RICHARD WALLACE. 4½ ft.	1.65	15.00
GLADIATOR. 5 ft.	1.65	15.00
AUSTRIA. 6 ft.	1.65	15.00

Orange Shades

MRS. KATE GRAY. 6 ft.	1.65	15.00
INDIANA. 6 ft.	1.65	15.00

Yellow-Edged and Gold-Edged Cannas

AMERICA. 5 ft.	1.35	12.00
ALLEMANNA. 4 to 5 ft.	1.35	12.00
DUKE OF YORK. 5 ft.	2.75	25.00
GLADIO-FLORA. 3½ ft.	1.65	15.00
ITALIA. 4½ ft.	1.50	14.00
JEAN TISSOT. 5 ft.	1.65	15.00
MAD. CROZY. 5 ft.	2.25	20.00
SOUV. de A. CROZY. 4 ft.	2.25	20.00

Pink-Flowering Cannas

VENUS. 3½ ft.	2.00	17.50
SHENANDOAH. 6 ft.	1.65	15.00

CALADIUM ESCULENTUM

(Elephant's Ear)

Full cases at 1000 Rate

	Doz.	100	1000
7/9 100 in a case	.50	3.50	30.00
9/11 75 in a case	.75	5.50	50.00
11/12 50 in a case	1.10	8.00	75.00
13/up 25 in a case	1.60	12.00	

FANCY-LEAVED CALADIUMS

Brazilian Collection of 12 varieties. \$1.50 per doz., \$12.00 per 100.
Mixed Brazilian Varieties. \$1.25 per doz., \$10.00 per 100.

TUBEROSES

Double Pearl. Bulbs, 4 to 6 in. in circumference.	100	1000
	\$1.00	\$7.50

Arthur C. Boddington Co., Inc., 128 Chambers St., New York City



MICHELL'S NEW CROP

ASPARAGUS PLUMOSUS NANUS

NORTHERN GREENHOUSE GROWN SEED

1,000 Seed	\$3.50	10,000 Seed	\$30.00
5,000 Seed	15.50	25,000 Seed	72.50

Special Prices on Larger Quantities

ASPARAGUS HATCHEFI SEED

100 Seed	\$.75	500 Seed	\$3.00
		1,000 Seed	\$5.00

ASPARAGUS SPRENGERI SEED

1,000 Seed	\$.75	10,000 Seed	\$5.50
5,000 Seed	3.00	25,000 Seed	12.50

ALSO ALL OTHER SEASONABLE SEEDS, BULBS AND SUPPLIES. SEND FOR WHOLESALE CATALOG.

HENRY F. MICHELL CO.

518 Market Street

PHILADELPHIA



Seeds

For a most complete stock of Seasonable Seeds

Bulbs

For immediate use or future delivery. Ask for quotations

Fertilizers

Pulverized Sheep or Cattle Manure. Clay's. Thompson's. Dried Blood.

Sundries

Insecticides, Spraying, Implements, Small Tools, etc.

YOU ought to have our retail and Florists' Special List. If you have not, write for one.

FOTTLER, FISKE, RAWSON CO., THE SEED STORE BOSTON
Faneuil Hall Square

"Seeds with a Lineage" All Varieties
Thoroughly tested at our trial grounds, Raynes Park, London, England. Send for Catalogue
CARTERS TESTED SEEDS, Inc., 166 Chamber of Commerce Bldg., Boston, Mass.

BULB STOCK

DWARF DOUBLE PEARL TUBEROSSES. Special prices on application.

CALADIUM ESCULENTUM BULBS.

Please tell us how many you can use and we shall make prices accordingly.

Selected strains of Ageratum, Alysum, Aster, Begonia Erfordi, Calendula Meteor, Prince of Orange, Candytuft, Celosia, Centaurea, Cobaea scandens, Cosmos, Gypsophila, Lobelia, Petunia, and Verbena. Special prices on the above on application.

J. M. THORBURN & CO.

53 Barclay Street
NEW YORK CITY

KELWAY & SON SPECIALIZE IN SEEDS

(personally selected strains)

WHOLESALE ONLY

Write for Special Prices, Spot or Forward

Only Address, LANGPORT, Eng

J. BOLGIANO & SON Careful Seed Growers For 99 Years

Send for Our 1917 Wholesale Prices
To Florists and Market Gardeners
BALTIMORE, MD.

ORDER NOW

ASPARAGUS PLUMOSUS NANUS SEED, greenhouse grown, \$3.50 per 1000, \$15.00 per 5000, \$27.50 per 10,000; Lath-house grown Seed, \$2.00 per 1000, \$9.00 per 5000, \$17.50 per 10,000. Asparagus Sprengeri Seed, 75c. per 1000, \$3.00 per 5000.

S. S. SKIDELSKY & CO.
1004 Lincoln Bldg. Philadelphia, Pa.

My new Price List of
WINTER-ORCHID-FLOWERING SWEET PEA SEED

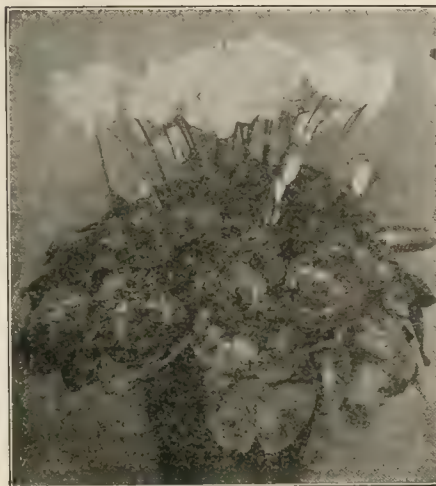
Has been mailed. If you have not received a copy, send me postal. Part of new crop will be ready early in July.

ANT. C. ZVOLANEK
Sweet Pea Ranch Lompoc, Cal.

ROBERT DYSART
CERTIFIED PUBLIC ACCOUNTANT

Simple methods of correct accounting
especially adapted for florists' use.
BOOKS BALANCED AND ADJUSTED.
40 STATE ST. BOSTON
Telephone Main 54.

FARQUHAR'S GOLD MEDAL



CYCLAMEN

Awarded the Gold Medal of the Massachusetts Horticultural Society.

Strong plants in 2 1/4 inch pots, for delivery in April.

\$10.00 per 100

R. & J. FARQUHAR & CO., Boston, Mass.

LEONARD'S SEEDS and SEED SERVICE

FOR SALE BY

LEONARD SEED COMPANY, Chicago, Ill.

LILIUM GIGANTEUM

NEW CROP NOW READY.

	Per 100	Per 1000
7 to 9 in. (300 bulbs to case)...	\$5.50	\$50.00
8 to 9 in. (250 bulbs to case)...	7.00	65.00
8 to 10 in. (225 bulbs to case)...	9.00	80.00
9 to 10 in. (200 bulbs to case)...	10.00	95.00

A. HENDERSON & CO.

211 N. State St., Chicago.

Burpee's Seeds PHILADELPHIA

**BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT.**

THOMAS J. GREY COMPANY

SEEDS, BULBS AND IMPLEMENTS
WHOLESALE AND RETAIL.

Resected Strains in Seeds.
Improved styles in Implements.
Catalogue upon application.

16 So. Market Street
BOSTON, MASS

BURNETT BROTHERS

Importers and Growers of

SEEDS, BULBS, PLANTS, &c.

98 Chambers Street, New York

ROMAN J. IRWIN
108 West 28th St., NEW YORK
SPECIAL OFFER

8/11, 225 to a case.....	\$80.00 per 1000
9/10, 200 to a case.....	85.00 per 1000
11/13, 100 to a case.....	15.00 per case
LILIUM FORMOSUM—Black Stem	
8/10, 200 to a case.....	\$80.00 per 1000
9/10, 180 to a case.....	90.00 per 1000
11/13, 100 to a case.....	16.00 per case

Write for Complete Stock Circular.
SATISFACTION GUARANTEED.

ORDER NOW

New crop flower and vegetable seeds.
Begonia and Gladiolus Bulbs. 1917
Catalogue on application.

JOSEPH BRECK & SONS' CORP.
47-54 North Market St., Boston, Mass.

W. E. MARSHALL & CO. SEEDS, PLANTS AND BULBS Horticultural Sundries

166 W. 23rd St., NEW YORK

GARDEN SEED

BET, CARROT, PARSNIP, RADISH and
GARDEN PEA SEED in variety; also other
items of the short crop of this past season,
as well as a full line of Garden Seeds, will
be quoted you upon application to

S. D. WOODRUFF & SONS
82 Dey St., NEW YORK and ORANGE, CONN

ALEX. McCONNELL

611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

*Cost of Cabling Foreign Deliveries
Must be prepaid*

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.

Penn.
The Florist

"The Telegraph Florist"

Member of Florists' Telegraph Delivery

124 TREMONT ST.
BOSTON

FOR

KANSAS CITY

Transfer Your Orders to

SAMUEL MURRAY

1017 Grand Avenue

Members Florists' Telegraph Delivery

Orders for NEW YORK.
Write or Phone to

MAX SCHLING

22 West 59th St.
Adjoining Plaza Hotel

Best Florists in the States as
References.

EUROPEAN ORDERS EXECUTED

Members of the Florists'
Telegraph Delivery.

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address. Dardsflor.

DAVID CLARKE'S SONS

Deliver orders from any part of the country to
New York City

Or OUT-GOING STEAMERS

Write or Telegraph

2139-2141 Broadway, - New York
Telephone 1890-1896 Columbus

Of Interest to Retail Florists

NEW FLOWER STORES.

Ponce, Okla.—A. G. Kaner.
Monesson, Pa.—H. J. Irwin.
Eagle Grove, Ia.—John Buhner.
Great Neck, L. I.—William E. Maynard.

Pittsburgh, Pa.—Fox Flower Shop, Arcade Building.

Garner, Mass.—John W. Lawson, 297 Central street.

Columbus, O.—James McKellar, 44 North High street.

St. Paris, O.—Charles Maxon, succeeding Henry Burkomer.

Providence, R. I.—Mrs. M. F. Pollock, removed to Beacon avenue.

Chicago, Ill.—Mrs. Julia K. King, 346 E. 51st street, succeeding M. B. Hirsch.

Newark, N. J.—Benson & Co., 707 Broad street. The Roseville Florist, Charles Stamberg, proprietor, 554 Orange street.

Chicago, Ill.—Geo. Fisher & Brother, 181 N. Wabash avenue. F. G. Franzen, 5319 N. Clarke street, branch store. Growers' Floral Co., Sheridan Road. Albany Nurseries, 225 W. Madison street.

NEW CHICAGO FIRMS.

Geo. Fisher & Bro. opened their new store at 181 N. Wabash, Mar. 31st.

The Freres-Windler Co. succeed Dominick Freres in the wholesale cut-flower business at 30 E. Randolph St. Stollery Bros., 1046 Wilson Ave., have made an advantageous sale of their lease and moved across the street.

Emil Reichling, who recently left his position as manager of the Peter Reinberg greenhouses, has gone into the retail field for himself, with a store at 5123 North Clark St. The sign reads, "Emil, The Cut Rate Florist."

Several new ventures have been launched just in time to make a bid for Easter and general spring trade. Apparently Chicago always has room for more and this year is no exception. The Albany Nurseries have filed incorporation papers with capital stock of \$10,000. Members of the firm are D. Jacobson, H. H. Stridiron and A. R. Phillips with seed store at 225 W. Madison St. There are already two flower stores here under the name of Albany Florists.

Send a Flowergram

MOTHERS' DAY, MAY 13th

No matter what the distance, flowers can be delivered there within a few hours thru an organized and reliable telegraphic system operating between reputable Florists in all parts of United States and Canada. Membership in

THE FLORISTS' TELEGRAPH
DELIVERY ASSOCIATION

is a guarantee for satisfactory delivery and value received.

Write or 'Phone

F. H. WEBER'S

Modern Flower Shop for
Artistic and Special Work

N. E. Corner of Taylor and Olive

ST. LOUIS, MO.

M. F. T. D.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.



GUIDE BROS CO
1214 F ST NW
WASHINGTON DC

GUIDE BROS. CO.
WASHINGTON, D. C.

Member Florists Telegraph Delivery

IN THE

National Capital

At your service to deliver Flowers
or Designs on Order by Tele-
graph or otherwise. Prompt
Reliable Service.

GEORGE H. COOKE

Connecticut Ave. and L St.
WASHINGTON, D. C.

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

Members Florists' Telegraph Delivery

G. E. M. STUMPP

761 Fifth Ave.

NEW YORK CITY

Member Florists' Telegraph Delivery Asso.

YOUNG & NUGENT

42 West 28 Street

New York

Members Florists' Telegraph Delivery

A. T. BUNYARD

NEW YORK

413 Madison Avenue at 48th Street.

Also Newport, R. I.

We Guarantee Satisfaction

MEMBER F. T. D. A.

CHICAGO

Send Your Orders to

WILLIAM J.**SMYTH**Member Florists' Telegraph
Delivery Association**Michigan Ave. at 31st Street**Prompt Auto Delivery
Service

THOS. F. GALVIN
INC.
NEW YORK 561 Fifth Ave.
Vanderbilt Hotel
BOSTON 1 Park Street
799 Boylston Street
Deliveries to Steamers and all Eastern Ports

CLEVELAND
A. GRAHAM & SON
5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

Orders Filled Day or Night for
CLEVELAND
and State of Ohio
Complete Stock. Regular discount to Trade.
KNOBLE BROS.
1896 W. 25th St., Cleveland, O.
Members Florists' Telegraph Delivery Ass'n.

THE SMITH & FETTERS CO.
735 Euclid Avenue
CLEVELAND, OHIO
Flowers of Every Kind in Season

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1532.
1415 Farnum St.,
OMAHA, NEB.

Rochester, N. Y.
J. B. KELLER SONS,
FLORISTS
25 Clinton Avenue, N.
Rochester Phone 306. Long Dist. Bell Phone 278.
Members Florists' Telegraph Delivery

S. A. ANDERSON
440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
Stock and prompt deliveries in BUFFALO,
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK
Members of Florists' Telegraph Delivery.

HIGH GRADE PLANTS
For Retail Stores a Specialty
ASK FOR LIST
THOMAS ROLAND, Nahant, Mass.
WORCESTER, MASS.
Randall's Flower Shop
HARRY L. RANDALL, Proprietor.
Mention Florists' Telegraph Association

Flowers by Telegraph

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

Albany, N. Y.—H. G. Eyres, 106 State St.
Albany, N. Y.—The Rosery, 23 Steuben St.
Boston—Thos. F. Galvin, 1 Park St.
Boston—Penn The Florist, 124 Tremont St.
Boston—Zinn The Florist, 4 Park St.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Cleveland, O.—Adam Graham & Sons, 5523 Euclid Ave.
Cleveland, O.—Knoble Bros., 1836 W. 25th St.
Cleveland, O.—The Smith & Fetters Co., 735 Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Ave.
Houston, Tex.—Kerr, The Florist.
Kansas City, Mo.—Samuel Murray, 1017 Grand Ave.
Los Angeles, Calif.—Howard & Smith, 853 So. Olive St.
New London, Conn.—Reuter's.
New York—J. H. Small & Sons, 505 Madison Ave., at 52d St.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 611 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—A. T. Bunyard, 413 Madison Ave., at 48th St.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Max Schling, 22 W. 59th St.
New York—G. E. M. Stump, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.
St. Louis, Mo.—F. H. Weber's, N. E. corner of Taylor and Olive Sts.
St. Paul, Minn.—Holm & Olson, Inc.
Tarrytown-on-Hudson, N. Y.—F. R. Pier-son Co.
Toronto, Can.—J. H. Dunlop, 8-10 West Adelaide St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—George H. Cooke, Connecticut Ave. and L St.
Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop, 22 Pearl St.

Send Telegraph, Telephone or Mail orders
for florist service in this vicinity to

Howard & Smith
853 SO. OLIVE ST.
Los Angeles, Calif.
Every Order sure to receive
prompt and careful attention.

ZINN The Florist
For Quality and Promptness
4 PARK ST. - - BOSTON

REUTER'S Members Florists' Telegraph Delivery

STORES IN

New London and Norwich, Conn.
and Westerly, R. I.

We cover the territory between
New Haven and Providence
ST. LOUIS, MO.

FRED C. WEBER
4326-28 Olive St.

Member Florists' Telegraph Delivery Association
NOTICE INITIALS. We have one store only

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

The Far-Famed Flowers of
TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP
8-10 West Adelaide St. - TORONTO, ONT.
ALBANY, N. Y.

EYRES
Flowers or Design Work
DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER
106 STATE STREET, ALBANY, N. Y.

"THE HOME OF FLOWERS"
The largest cut flower store in America.
Orders for the TWIN CITIES and for all
Northwestern points given prompt at-
tention

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

The Park Floral Co.
J. A. VALENTINE, Pres.

Members Florists' Telegraph Delivery.

DENVER, COLORADO



KERR ORDERS FOR TEXAS
HOUSTON, TEXAS
The Florist Member F. T. D. Association

NEWS ITEMS FROM EVERYWHERE

CHICAGO.

A. Miller calls attention to the shortage of good lilies for Easter and advocates "preparedness" for next season by placing orders for bulbs with his firm now.

Kennicott Bros. Co., whose house has the distinction of being the oldest cut flower commission house in Chicago, reports one of the best Easters in its history.

H. C. Blewett has the sympathy of the trade in the loss of his wife Mar. 23, at their home in Desplaines, where they have lived 28 years. A more extended notice will be found in another column.

Another member of the trade was relieved of his auto by thieves last week but the car has been recovered. Edward Leonard of the Leonard Seed Co. was the owner and the car was taken from in front of the store.

Anton Then, one of the stock holders of the Chicago Flower Growers' Assn., and Mrs. Then left Friday for the South, where they will spend some time at Magnolia Springs, Ala., where Mr. Then hopes to regain his health.

The new addition to the salesroom of the Poehlmann Bros.' city store is now ready for occupancy. It practically doubles the floor space, is light and will give customers a very convenient place to trade. Accessories have become such an important part of the retail florists' business that it needs almost or quite as much attention as the cut-flower stock, and this new room affords the opportunity of doing all the buying in one place. E. J. Warren is now in charge of their credit department.

Wm. J. Smyth reports an Easter business that exceeds anything in recent years. Their extremely large show windows sold the fine stock before customers came into the store, and they had only to indicate the particular hamper or basket of plants they desired. This method may not make so artistic a picture of a window, for it must necessarily be constantly changing, but it does facilitate sales. The upper half of the windows were trimmed with apple blossoms, so the artistic features were not wholly lost sight of.

Another Easter has become history. Every one connected with the trade is tired and a little glad that it is all over. Few have their books in shape now to make comparisons, but the general impression prevails that it was a splendid harvest time with plants again running ahead of cut flowers. In the retail stores hundreds of hampers were ready for the order of the customer and their attractiveness made them move quickly. Quantities of cut

flowers were sold, prices keeping up much better than a year ago, though there was little tendency to go to extremes. The great question seemed to be good lilies, and right here reports will differ. Some firms had just enough first class lilies to supply their customers and so report no shortage, while others were disappointed in not receiving all they had expected and so had to cut short in their shipping trade. On one point all agree and that is, that good lilies were not in over supply.

WASHINGTON, D. C.

President Wilson has just issued a proclamation under the provisions of which the German insurance agencies in the United States will be permitted to continue in business. It is understood that a number of florists have sought fire protection with these companies. It was at first feared that because of their being branches of German companies they would be forced to suspend business. In view of the fact that they keep their assets in this country and that large sums of money are involved, they will not be molested.

Postmaster General Burleson has sent out a notice to postmasters throughout the United States informing them that all mail communication with Germany has been suspended and that all mail matter addressed to people in that country must be held up and sent to the dead letter office in Washington for return to the senders. In another order Postmaster General Burleson directs the suspension of the exchange of postal money orders between Germany and the United States, and postmasters are instructed to refuse the payment of all orders drawn against their offices by offices in Germany on and after April 6.

EASTER IN ST. LOUIS.

In Wm. C. Smith's wholesale mart there was an unusually high class supply. Best of all, the stock was cut right, not hoarded up, and keeping qualities were of the very best in consequence.

All the wholesalers report a rushing Easter business in all lines. Geo. H. Angermueller was especially busy in florists' supplies. A heavy shipping trade was done by C. A. Kuehn and H. G. Berning.

C. Young & Sons' windows were superbly decorated with blooming plants and cut flowers. This house did an immense trade in blooming plants, many orders coming from a long distance away from town.

F. H. Weber's store was a scene of great beauty. Cut flowers were staged in ornamental vases in very artistic fashion. The greenhouse adjoining was filled with a splendid supply of blooming and decorative foliage plants. The beautiful effect produced was entirely without artificial material, ribbons or other accessories.

PHILADELPHIA.

Some half-witted boy burned up Commodore Westcott's hay shipment at Waretown Station the 2nd inst. It will take a hundred to pay for the hay, the platform and the tires and the R. R. Co. refuses to settle because they had not yet loaded and receipted for it.

I just received my copy of the American Rose Annual for 1917. It is so full of good things that it is imperative to say a word even if I am not a rose man except as an adherent. J. Horace McFarland has certainly done himself credit. Send in your name and your dollar. The American Rose Society is the liveliest proposition on the footstool today.

Some of the ill-advised critics of the late National Rose Festival here are making comments on the fact that a lot of money was not made out of it. What do these people suppose a guarantee fund of five or six thousand dollars was put up for? To make money? No. To make an artistic success regardless of gate receipts. We wish in this connection to correct our own dear paper against calling this the "Phila" Rose Festival. It was truly national in its scope.

G. C. WATSON.

MOTHERS' DAY PUBLICITY.

The Publicity Committee of the Chicago Florists' Club has been instructed to carry on a national co-operative advertising campaign to stimulate and create a greater demand for flowers and plants of every description for Mothers' Day, Sunday, May 13, 1917. This movement is strictly a national co-operative advertising proposition, whereby this committee plans to devote the net proceeds of this campaign to the purchase of a full-page advertisement announcing Mothers' Day in one of the leading magazines with a national circulation of 600,000 or over.

To carry out the plan as formulated will be quite an undertaking, and to do so it will be necessary to dispose of a very large number of stamps and window posters. Now then, if every florist in this country does his share to support this movement, this committee will be able to make an announcement of this kind.

TIME IS SHORT—ACT AT ONCE—State amount of money you wish to subscribe for stamps and window posters; forward your check immediately to F. Lautenschlager, 440 W. Erie Street, Chicago, Illinois. Make all checks payable to O. H. Amling, Treasurer, Chicago Florists' Club.

The stamps and window posters to be used in this campaign will be printed in two colors with a border of forget-me-nots. They are a work of art, and should be used by every one in the florist business. The stamps will measure 2½ inches high; the window posters, same color and design as stamps, 7¼ inches high; stamps

AFTER EASTER

Weddings == Mothers' Day == Memorial Day

Fill up your Show Cases and Shelves with another nice stock of Bayersdorfer Baskets and other Seasonable Supplies. We have splendid novelties and all the standard goods in endless variety, Home Manufacture and Imported.

SEND FOR CATALOGUE AND PRICES

and see how much you can do with a little money when you go straight to headquarters—*The Florists' Supply House of America.*

H. BAYERSDORFER & CO.

Manufacturers and
Importers

1129 Arch Street, PHILADELPHIA, PA.

Write for
Catalogue

and window posters will be gummed and ready for use.

Send your subscription and check at once, also tell every florist in your community to do so; it will help your

FLOWER MARKET REPORTS



business and theirs. Stamps, window posters and price-lists will be forwarded early next week. Address all communications to F. Lautenschlager, 440 W. Erie St., Chicago, Illinois.

An attractive folder in colors has been sent out from the office of Secretary Pochelon to members of the F. T. D., urging a more vigorous exploitation of Mothers' Day as a floral occasion, as follows:

F. T. D. Members:

Advertising out of town floral service has helped many of us to make extra sales for Easter, now let us all advertise the F. T. D. Service for Mother's Day, and advertise it with every chance possible.

Not alone do everything in your power to give publicity to Mother's Day, but be doubly sure that every order from out of town florists to F. T. D. members is taken the best care of.

Yours for a better and more efficient floral service to the public, as well as from florist to florist.

Sincerely yours,

ALBERT POCHELON,

Sec. F. T. D.

Glenwood Springs, Col.—Mrs. and Mrs. Lewis have purchased the Glenwood Greenhouses, and have leased their retail store, the Charlsen Flower Shop, Emporia, Kan., for two years.

BOSTON This year gave Boston the third stormy Easter in succession. Easter

Sunday itself was a beautiful day but the "florists' Easter"—Friday and Saturday—could hardly have been much worse as to weather and naturally it had a dispiriting influence on the flower market. Stormy Easters are getting rather monotonous. Nevertheless, Boston reports a splendid record for both flower sales and plant sales. Lilies ran short of the call early in the game. Some of the growers were late with their lilies apparently and had tried too late to drive them in on time, the result being a lot of green half-developed stuff that in ordinary times would be unsalable but on this occasion found plenty of buyers. There were, however, many very fine lilies in the hands of those retailers who had secured their supply well in advance. Roses were plentiful except in the case of the red varieties, of which more could have been sold. Carnations made a surprising record. Violets did likewise, only more so, bringing prices not touched since Christmas. We refer to the single ones; doubles were moved with difficulty. Yellow narcissi were a burden too gigantic for this market. Never before have so many been in sight and they were not southern but local greenhouse grown. Snapdragon was not strongly in evidence but it had a very cool reception. Yellow primroses were had in unprecedented quantity but all were disposed of and at good prices. The same is true of sweet peas except the holdovers from the early part of the week. Fine pansies brought \$2.00 per hundred readily. The retailers are all well satisfied with their experience and the wholesalers are jubilant. It is safe to say that more flowers changed hands than

at any previous Easter in the history of this market—and all this in spite of war excitement and inclement weather!

CHICAGO Wholesalers are having a breathing spell. Ever since shipping trade began, the steady stream of business has kept all busy and the quiet that has come with the Monday after, is most grateful to all. The market was well supplied with flowers for Easter and with some few exceptions there was enough for all and but little to spare of choice stock. Retailers had a splendid trade that kept them buying well into Sunday with the result that when night came many had sufficient stock left for the light trade that naturally came Monday and Tuesday. Out-of-town trade was good and used up a large proportion of the best the market afforded. More short and medium American Beauties could have been used and the same can be said of Mrs. Russell roses. At this writing counters and ice boxes hold quantities of stock and unless some unforeseen demand comes for them they are not likely to all find sale. One good thing this Easter was the absence of last minute telegrams. Whether the out-of-town trade has awakened to the fact that belated orders cost as much or more than early ones and do not have the chance of being filled so carefully or whether the cry of preparedness has taken hold of them is not known, but certain it is, more early orders and less late ones was the experience of many.

CINCINNATI The Easter business was one of the best for that day that this market ever has had. All of a good supply cleaned up quickly. Shipping business was excellent. Roses were

(Continued on page 499)

BEAUTIES

as we can furnish you give satisfaction
and at our price is profitable stock
for you to handle.

THE LEO NIESSEN CO.

Wholesale Florists

1201-05 Race Street,

PHILADELPHIA, PA.

To Cut Flower Growers and Retail Florists

IF YOU

want to find a market for your
product

want a regular or special supply
of the product of the best
growers

Consult the Advertisements on
these Wholesale Flower Pages

The Advertisers Represented Here are the Leading
Concerns in the Wholesale Flower Trade

EDWARD REID WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.

CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

Philadelphia Wholesale Florist Exchange

ROSES OUR SPECIALTY

A trial order will convince you
1615 Ranstead St., PHILADELPHIA, PA.

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$2.00. 50,000...\$8.75. Sample free.
For sale by dealers.

E.G. HILL CO.

Wholesale Florists

RICHMOND, IND.

Please mention Horticulture when writing.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

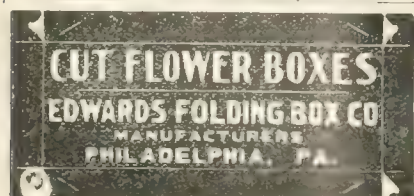
264 RANDOLPH ST., DETROIT, MICH.

The House for Quality and Service

ZECH & MANN

We are Wholesale Florists Doing
a Strictly Wholesale Business

30 East Randolph Street, CHICAGO



POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut Flower Market

Daily consignments from
leading growers

Full line of Florists'
Supplies

Write for quotations before
ordering elsewhere

262B DEVONSHIRE ST., BOSTON, MASS.
Telephone, Main 6267-6268

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON April 12		ST. LOUIS April 9		PHILA. April 9	
Roses						
Am. Beauty, Special	30.00	to 40.00	40.00	to 50.00	25.00	to 30.00
" " Fancy and Extra	20.00	to 30.00	20.00	to 30.00	15.00	to 20.00
" " No. 1 and culls	4.00	to 12.00	3.00	to 6.00	4.00	to 10.00
Russell, Euler, Mock	2.00	to 12.00	5.00	to 15.00	10.00	to 25.00
Hadley	3.00	to 12.00	10.00	to 15.00	10.00	to 25.00
Arenberg, Hoosier Beauty	2.00	to 10.00	3.00	to 8.00	6.00	to 10.00
Ward	2.00	to 10.00	3.00	to 8.00	4.00	to 8.00
Killarney, Radiance, Taft	2.00	to 10.00	3.00	to 10.00	3.00	to 15.00
Ophelia, Sunburst, Hillingdon	2.00	to 12.00	4.00	to 10.00	4.00	to 15.00
Key	2.00	to 12.00	10.00	to 15.00	10.00	to 25.00
Carnations	3.00	to 4.00	2.00	to 3.00	2.00	to 4.00
Cattleyas	30.00	to 75.00	10.00	to 50.00	50.00	to 75.00
Dendrobium formosum	8.00	to 50.00	10.00	to 15.00	8.00	to 18.00
Lilies, Longiflorum	4.00	to 10.00	10.00	to 12.00	10.00	to 12.00
Lilies, Speciosum	10.00	to 12.00	10.00	to 12.00	10.00	to 12.00
Callas	10.00	to 12.00	10.00	to 12.00	10.00	to 12.00
Lily of the Valley	2.00	to 3.00	5.00	to 6.00	5.00	to 6.00
Snapdragon	2.00	to 6.00	4.00	to 8.00	4.00	to 8.00
Daffodils	.50	to 1.50	1.00	to 3.00	2.00	to 3.00
Narcissi, Paper White	1.00	to 2.00	2.00	to 3.00	3.00	to 4.00
Roman Hyacinths	1.00	to 2.00	2.00	to 3.00	3.00	to 4.00
Freesias	1.00	to 2.00	2.00	to 3.00	3.00	to 4.00
Tulips	1.50	to 3.00	2.00	to 4.00	2.00	to 4.00
Calendulas	1.00	to 2.00	1.00	to 2.00	2.00	to 3.00
Sweet Peas	.25	to .75	.30	to 1.00	.50	to 1.00
Violets	.20	to .60	1.00	to 3.00	.50	to .75
Marguerites	1.00	to 2.00	1.00	to 2.00	1.00	to 2.00
Gardenias	2.00	to 35.00	1.00	to 1.00	10.00	to 25.00
Adiantum	1.00	to 1.50	1.00	to 1.00	1.00	to 1.50
Smilax	12.00	to 20.00	12.50	to 15.00	15.00	to 20.00
Asparagus Plumosus, & Spreng. (100 Bchs.)	25.00	to 35.00	25.00	to 50.00	40.00	to 50.00

WILLIAM F. KASTING Co.

Wholesale Florists

568 570 WASHINGTON STREET - BUFFALO, N. Y.

J.A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER of

CUT FLOWERS



BEAUTIES

At no time this season have they been better than at present; wonderful quality; all lengths.

	Per Doz.	Per 100
Special	\$5.00	\$35.00
Fancy	4.00	30.00
Extra	3.00	20.00
First	2.00	15.00
Second	1.50	10.00

S. S. PENNOCK-MEEHAN CO.

THE Wholesale Florists of PHILADELPHIA

NEW YORK
117 W. 28th St.

PHILADELPHIA
1608-1620 Ludlow St.

BALTIMORE
Franklin & St. Paul Sts.

WASHINGTON
1216 H St., N.W.

Flower Market Reports

(Continued from page 497)

in a good supply but were not quite as plentiful as was anticipated previous to Easter. Carnations were in a good supply. Easter lilies were in abundance and generally of a high quality. A limited amount of tulips, daffodils and hyacinths were available. Sweet peas, lily of the valley and orchids sold well. Among other offerings were callas, gladioli, snapdragon, violets and stocks.

Easter week began

NEW YORK inauspiciously. The

high temperatures of

Saturday and Palm Sunday was responsible for a large cut of roses and general stock and with a weak demand kept the market depressed during the week. The retailers were in anything but a cheerful mood up to Friday when their plants began to move and Saturday cleared up that situation for them in a generally satisfactory manner. Cut lilies were all cleaned up rapidly and there were probably more of these sold during the week at good prices than for many years previous. Callas also found a lively market. White carnations moved slower than usual Wednesday, when it was expected an extra demand would develop for use in the churches, and for the balance of the week they were in generous supply and did not clean up at all satisfactorily. The carnation end was distinctly disappointing. As the week wore on dark weather and lower temperatures reduced the supply of roses and they cleaned up well on Sunday morning. Beauties were more plentiful, proportionately, than any of the other varieties, much too plentiful to maintain a staple price and some were carried over. Some fine Hadleys out-sold the Beauty. There were some excellent Brunners and they brought good prices. Ophelia sold well and led the teas in popularity and there were some fine flowers of these in the market with stems 2-foot and over. Fine stock in all varieties of roses was in demand and averaged up well. Cattleyas were very scarce. All week long there was a deluge of daffodils and

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI April 9	CHICAGO April 9	BUFFALO April 2	PITTSBURG April 9
Roses				
Am. Beauty, Special	40.00 to 50.00	35.00 to 40.00	30.00 to 40.00	40.00 to 50.00
" " Fancy and Extra	25.00 to 30.00	25.00 to 35.00	20.00 to 30.00	20.00 to 30.00
" " No. 1 and culls	6.00 to 20.00	6.00 to 20.00	6.00 to 10.00	10.00 to 15.00
Russell, Euler, Mock	4.00 to 10.00	4.00 to 20.00	10.00 to 15.00	6.00 to 15.00
Hadley	6.00 to 10.00	6.00 to 10.00	6.00 to 10.00	6.00 to 10.00
Arenberg, Hoosier Beauty	6.00 to 10.00	6.00 to 10.00	6.00 to 10.00	6.00 to 10.00
Ward	4.00 to 8.00	4.00 to 10.00	3.00 to 6.00	4.00 to 10.00
Killarney, Radiance, Taft	4.00 to 10.00	3.00 to 8.00	3.00 to 6.00	4.00 to 12.00
Ophelia, Sunburst, Hillingdon	6.00 to 12.00	4.00 to 10.00	4.00 to 10.00	4.00 to 12.00
Key	6.00 to 12.00	4.00 to 10.00	4.00 to 10.00	4.00 to 12.00
Carnations				
Cattleyas	2.00 to 4.00	1.50 to 3.00	2.00 to 3.00	2.00 to 4.00
Dendrobium formosum	60.00 to 75.00	40.00 to 50.00	40.00 to 50.00	60.00 to 75.00
Lilies, Longiflorum	10.00 to 12.00	8.00 to 10.00	8.00 to 10.00	10.00 to 12.00
Lilies, Speciosum	10.00 to 12.00	8.00 to 10.00	8.00 to 10.00	10.00 to 12.00
Callas	8.00 to 10.00	8.00 to 10.00	8.00 to 10.00	8.00 to 10.00
Lily of the Valley	6.00 to 10.00	5.00 to 10.00	6.00 to 10.00	6.00 to 10.00
Snapdragon	6.00 to 12.50	6.00 to 10.00	5.00 to 8.00	6.00 to 10.00
Daffodils	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
Narcissi, Paper White	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
Roman Hyacinths	3.00 to 4.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
Freesia	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
Tulips	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
Calendulas	2.00 to 4.00	2.00 to 3.00	2.00 to 3.00	2.00 to 4.00
Sweet Peas	50 to 1.00	50 to 1.50	50 to 1.50	50 to 2.00
Violets	40 to .75	40 to .75	40 to .75	40 to .75
Marguerites	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Gardenias	15.00 to 25.00	15.00 to 25.00	15.00 to 25.00	15.00 to 25.00
Adiantum	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Smilax	15.00 to 20.00	12.00 to 18.00	15.00 to 20.00	15.00 to 20.00
Asparagus Plu. & Spreng. (100 Bhs.)	25.00 to 50.00	25.00 to 50.00	20.00 to 30.00	40.00 to 75.00

jonquils and there were enormous quantities of them sold, also much that was not. The South contributed to make the situation difficult. The better sorts of tulips were towards the end of the week readily marketed at fair prices but many were poor, both as to color and quality. Cattleyas were scarce and brought good prices when of satisfactory quality. Lily of the valley was scarce and generally poor and good prices were realized this year for stock which would be discarded formerly as culls. Sweet peas were a factor for a day, were in ample supply, and generally of excellent quality. The supply of iris was rather more than the demand. Gardenias did as well as could be expected considering the ample supply; there seemed to be plenty of the inferior grades for the street

boys. Violets worked off fairly well when good, but many were kept hanging too long on the plants only to lose their fragrance. Of miscellaneous flowers, snapdragons, stocks, primroses, daisies, etc., there were plenty—rather more than was wanted. As the South has begun shipping asparagus there was plenty and to spare of that and accumulations remained unsold. On the whole, considering that the country had declared war only the day previous, results should be considered satisfactory, for the bulk of Easter business done was no less than in previous years. There were very few novelties in plants but practically all good plants found a market, the moderate priced stock being generally preferred.

(Continued on page 501.)



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	Last Half of Week ending April 7 1917		First Half of Week beginning April 9 1917	
American Beauty, Special	30.00	to 35.00	30.00	to 35.00
" " Fancy and Extra	20.00	to 25.00	15.00	to 20.00
" " No. 1 and culls	4.00	to 10.00	4.00	to 10.00
Russell, Euler, Mock	5.00	to 25.00	3.00	to 13.00
Hadley	5.00	to 60.00	2.00	to 50.00
Arenberg, Hoosier Beauty	5.00	to 15.00	1.00	to 10.00
Ward	5.00	to 15.00	1.00	to 10.00
Killarney, Radiance, Taft	3.00	to 15.00	2.00	to 10.00
Ophelia, Sunburst, Hillingdon	5.00	to 25.00	2.00	to 10.00
Key	3.00	to 25.00	2.00	to 10.00
Carnations	1.50	to 4.00	2.00	to 3.00

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Telephones, 13—8510 Madison Square

Consignments Solicited

MAURICE L. GLASS, Treasurer

Flower Market Reports

(Continued from page 499)

PHILADELPHIA From all accounts the Easter week cut-flower trade in this city was ahead of the good record of last year. Some say "fully as good," others say "ten per cent. better," still others "twenty-five per cent. better." There was no great boom in prices (with possibly the exception of cattleyas), and nearly everything could be had at reasonable figures to satisfy the purses of all—which is as it should be, and showed a healthy ratio between supply and demand. There was an unexpectedly good clean-up on lilies which are usually liable to be a drug at the wind-up. The late Saturday cuts of American Beauty roses hung fire for the simple reason that the retailers had already bought all they could use. Hadleys were a great feature. Never have we seen finer flowers of these. Russells were also very fine. Carnations were excellent and there was a big demand especially in the dark colors, one of the best being Belle Washburn, which topped the list in popularity. Its one fault is a rather brittle stem. Sweet peas were all that could be desired both in quantity and quality, and the sales of same were immense. Usually violets are in the doldrums at Easter, but this year was a most gratifying exception. They cleaned up splendidly at good prices. Daffodils were in large supply, especially Southern, and fine as the market was it could not absorb all of them. The same may be said of tulips. The plant men so far as we have heard to this writing have had the best Easter ever. Everything salable cleaned up clean. All the growers are sending praises aloft that the big snowstorm held off until Sunday night.

ST. LOUIS Easter business was from all accounts very good and wholesalers, retailers and plant men seemed to be well satisfied. The supply was good. Easter Sunday morning there was a regular blizzard with high winds, snow and sleet which continued to fall all day. This greatly impeded transient trade, also the delivery of plants, but notwithstanding these handicaps the Easter of 1917 will be known as a good one for all concerned.

WASHINGTON Rapid climatic changes were of the features of the market last week, starting with hot weather on Monday that brought flowers of all kinds into the market by the thousands, growing cold on Wednesday and slackening up the supply materially and finishing on Easter Sunday with a snowstorm the equal of any of the winter. Sweet peas were the hardest hit, as enormous quantities were received early in the week, and these the wholesalers were unable to move because of their soft condition. The cold weather materially lessened the supply and at the last minute they started to pour in again. Double violets from Hudson River points also came in heavy the first of the week, and these could not be moved at hardly any price. The condition later changed and on Sunday

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NEW YORK QUOTATIONS PER 100. To Dealers Only			
MISCELLANEOUS		Last Half of Week ending April 7 1917	First Half of Week beginning April 9 1917
Cattleyas	50.00 to 100.00	50.00 to 100.00	50.00 to 100.00
Dendrobium formosum	10.00 to 50.00	10.00 to 50.00	10.00 to 50.00
Lilies, Longiflorum	10.00 to 15.00	10.00 to 15.00	10.00 to 15.00
Lilies, Speciosum	3.00 to 8.00	3.00 to 8.00	3.00 to 8.00
Callas	12.00 to 15.00	12.00 to 15.00	12.00 to 15.00
Lily of the Valley	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
Snapdragons	1.00 to 8.00	1.00 to 8.00	1.00 to 8.00
Daffodils	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Narcissi, Paper White	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Roman Hyacinths	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Freesia	.50 to 2.00	.50 to 2.00	.50 to 2.00
Tulips	1.00 to 3.00	1.00 to 3.00	1.00 to 3.00
Calendulas	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Sweet Peas	.25 to 1.00	.25 to 1.00	.25 to 1.00
Violets	.25 to .75	.25 to .75	.25 to .75
Marguerites	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Gardenias	3.00 to 35.00	3.00 to 35.00	3.00 to 35.00
Adiantum	.50 to 1.00	.50 to 1.00	.50 to 1.00
Smilax	15.00 to 25.00	15.00 to 25.00	15.00 to 25.00
Asparagus Plumosus, & Spreng (100 bunches)	15.00 to 35.00	15.00 to 35.00	15.00 to 35.00

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they cleaned up. Lily of the valley sold up close at \$8 per hundred. American Beauty and other red roses, also carnations, were in very good demand. There was an oversupply of Easter lilies and other potted plants and enormous quantities of daffodils, hyacinths and other spring flowers were sent in to be disposed of. Considering the bad weather, both wholesalers and retailers did very well.

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APHIS PUNK

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William Sim, Cliftondale, Mass.
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Split carnations quickly, easily and
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\$1.25 per 100, \$10 per 1000; unrooted cut-
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King Channel Gutter.
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Lemon Oil Insecticide.
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Coldwell Lawn Mower Co., Newburg, N. Y.,
and Chicago, Ill.
Coldwell Walk Type Motor Mowers.

LILY BULBS.

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Horticultural Importers and Exporters.
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Japanese Lilies.
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LILY OF THE VALLEY PIPS

Chas. Schwake & Co., Inc., New York City.
Hobmann's Famous Lily of the Valley Pips.
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J. M. Thorburn & Co., New York City.
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National Nurseryman Publishing Co., Inc.
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Hill's Evergreens.
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Hardy, Northern Grown Stock.
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In writing to Advertisers kindly mention Horticulture

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ORCHID PLANTS

Beechwood Heights Nurseries,
Bound Brook, N. J.
Importers and Growers of Orchids.
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Julius Roehrs Co., Rutherford, N. J.
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Lager & Hurrell, Summit, N. J.

HASSALL & CO., Orchid Growers and
Raisers, Southgate, London, England. Im-
mense stock of Cattleyas.

PAINTS AND PUTTY

The Dwelle-Kaiser Co., Buffalo, N. Y.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
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PANSY PLANTS

200,000 large, stocky (Sept. transplanted),
field-grown blooming pansy plants, Henry
Mette's strain, all salable stock, satisfaction
guaranteed. \$1.25 per 100, \$11.50 per 1000.
Cash. Prompt shipping.

BRILL CELERY GARDENS,
KALAMAZOO, MICHIGAN.

PETUNIAS

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
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PEONIES

Peonies. The world's greatest collection.
1200 sorts. Send for list. C. BETSCHER,
Canal Dover, O.

Complete manuals on the Peony, Iris and
Phlox. 25 cents each in stamps. C. S.
HARRISON, York, Nebraska.

PECKY CYPRESS BENCHES

Metropolitan Material Co., Brooklyn, N. Y.
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A. T. Stearns Lumber Co., Boston, Mass.
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PIPE AND FITTINGS.

Kroeschell Bros. Co., Chicago.
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King Construction Company,
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers
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PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."
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PLANT AND BULB IMPORTS

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August Rolker & Sons, New York City.
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McHutchison & Co., New York City.
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PRIMULAS

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RHODODENDRONS

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Bay State Nurseries, North Abington, Mass.
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August Rolker & Sons, New York City.
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ROSES, CANNAS AND SHRUBS.
THE CONARD & JONES COMPANY,
WEST GROVE, PA.

SASH

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SEASONABLE PLANT STOCK

R. Vincent, Jr. & Sons Co., White Marsh,
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SEEDS

Carter's Tested Seeds.

Seeds with a Pedigree.

Boston, Mass., and London, England.
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Joseph Breck & Sons, Boston, Mass.
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J. Bolgiano & Son, Baltimore, Md.
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Michell's Seed House, Philadelphia, Pa.
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W. Atlee Burpee & Co., Philadelphia, Pa.
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R. & J. Farquhar & Co., Boston, Mass.
Gold Medal Cyclamen Seed.
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Ant. C. Zvolanek, Lompoc, Cal.
Winter Flowering Sweet Pea Seed.
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S. S. Skidelsky & Co., Philadelphia, Pa.
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Kelway & Son, Langport, England.
Seeds, Selected Strains.
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W. E. Marshall & Co., New York City.
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Burnett Bros., 98 Chambers St., New York.
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Leonard Seed Co., Chicago, Ill.
Seeds and Seed Service.
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S. D. Woodruff & Sons, New York City and
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Garden Seeds.
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Thomas J. Grey Co., Boston, Mass.
Seeds, Bulbs, Implements.
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Fottler, Fisk, Rawson Co., Boston, Mass.
Seeds for the Florist
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SHELF BRACKETS

Metropolitan Material Co., Brooklyn, N. Y.
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SPIAGNUM MOSS

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. LAGER
& HURRELL, Summit, N. J.

STRAWBERRY PLANTS

Strawberry Plants, \$2.50 per 1000. Cata-
logue free. BASIL PERRY, Georgetown,
Delaware.

SWEET PEA SEED

Ant. C. Zvolanek, Lompoc, Calif.
Gold Medal of Honor Winter Orchid Sweet
Peas.

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R. Vincent, Jr. & Sons Co.
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VERMICIDES

Aphine Mfg. Co., Madison, N. J.
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Pino-Lyptol Weed Killer.
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H. Bayersdorfer & Co., Philadelphia, Pa.
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Reed & Keller, New York City.
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WORKS, 264 Randolph St., Detroit, Mich.

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Albany Cut Flower Exchange, Albany, N. Y.
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Brooklyn

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William F. Kasting Co., 568-570 Washing-
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Poehlmann Bros. Co., Morton Grove, Ill.
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Zech & Mann, 30 East Randolph St.
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Kennicott Bros. Co., 163-65 N. Wabash Ave.
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Chicago Flower Growers' Association,
182 N. Wabash Ave.

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Est. 1765

Inc. 1904

Pot Makers for a
Century and a Half**HEWS****STRONG
RED
POROUS****POTS**World's Largest
ManufacturersStandard, Azalea, Bulb, Orchid, Fern, Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.Writes for Catalogue
and Discounts**A. H. HEWS & CO., Inc., Cambridge, Mass.**Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.**WHOLESALE FLORISTS
Detroit**Michigan Cut Flower Exchange, 264-266
Randolph St.
For page see List of Advertisers.**New York**H. E. Froment, 148 W. 28th St.
For page see List of Advertisers.W. F. Sheridan, 133 W. 28th St.
For page see List of Advertisers.P. J. Smith, 131 West 28th St.
For page see List of Advertisers.Hentz & Nash, 55 and 57 W. 26th St.
For page see List of Advertisers.Charles Millang, 55 and 57 West 26th St.
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28th St.
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26th and 27th Sts.
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For page see List of Advertisers.Herman Weiss, 106 West 28th St.
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For page see List of Advertisers.Joseph S. Fenrich, 51 West 28th St.
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For page see List of Advertisers.Frank Millang, 55-57 West 26th St.
York City.
For page see List of Advertisers.The Beechwood Heights Nurseries, Thos.
Young, Jr. Prop., 57 West 28th St.
For page see List of Advertisers.**Philadelphia**Leo. Niessen Co., 12th and Race Sts.
For page see List of Advertisers.**DREER'S "Riverton Special" Plant Tubs**

No.	Diam.	Ea.	Doz.	100
10	20 in.	\$1.60	\$17.50	\$145.00
20	18 in.	1.45	15.50	130.00
30	16 in.	1.10	12.25	100.00
40	14 in.	.70	7.75	60.00
50	12 in.	.50	5.50	45.00
60	10 in.	.40	4.40	35.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest
lightest and cheapest. Painted green, with electric welded hoops. The four largest
sizes have drop handles.**HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.****WHOLESALE FLORISTS
Philadelphia—Continued**Edward Reid, 1619-21 Ranstead St.
For page see List of Advertisers.The S. S. Pennock-Meehan Co., 1608-20
Ludlow St.
For page see List of Advertisers.Philadelphia Wholesale Florist Exchange,
1615 Ranstead St.
For page see List of Advertisers.**Richmond, Ind.**E. G. Hill Co.
For page see List of Advertisers.**Rochester, N. Y.**George B. Hart, 24 Stone St.
For page see List of Advertisers.**Washington**The S. S. Pennock-Meehan Co., 1216 H St.,
N. W.
For page see List of Advertisers.**New Offers In This Issue****AMERICAN BEAUTY ROSES.**S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.**ASPARAGUS PLUMOSUS NANUS,
HATCHERI AND SPRENGERI
SEED.**Henry F. Michell Co., Philadelphia, Pa.
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SEED.**S. S. Skidelsky & Co., Philadelphia, Pa.
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OPERATING DEVICES.**Advance Co., Richmond, Ind.
For page see List of Advertisers.**HYDRANGEAS IN BUD AND BLOOM.**A. L. Miller, Jamaica, N. Y.
For page see List of Advertisers.**JAPANESE LILIES.**F. Rynveld & Sons, New York City.
For page see List of Advertisers.**LILY BULBS.**American Bulb Co., Chicago, Ill.
For page see List of Advertisers.**STANDARD FLOWER
POTS**If your greenhouses are within 500
miles of the Capitol, write us; we can
save you money.**W. H. ERNEST**
29th & M Sts., Washington, D. C.**WANTS, FOR SALE, Etc.****HELP WANTED**WANTED AT ONCE—Two men with
some experience, to work under foreman.
Single Americans preferred. No drinking
men. State wages wanted, experience and
age. MRS. A. I. COLBURN, 68 Graham St.,
Gardner, Mass.WANTED—For private estate, experi-
enced single man as first assistant under
glass. Must understand grape growing and
be a successful grower of the general run
of plants for cut bloom. Good wages to
first-class man. Give full particulars and
references, stating salary expected with
room. "C," care of HORTICULTURE.**FOR SALE**FOR SALE—Glass, 6x8 to 10x12, single
thick, \$1.85, double thick, \$2.85 per box.
METROPOLITAN MATERIAL CO., 1297-
1325 Flushing Ave., Brooklyn, N. Y.FOR SALE—Two greenhouses, one 100 x
28, one 185 x 31; and dwelling house, six
rooms with bath, hot and cold water, steam
heat, half-acre of land. Address JOSEPH
FARRELL, 197 Broadway, Somerville, Mass.
Tel., Som. 1517-W.FOR SALE—Two windmills, steel skele-
ton type, at Ithaca, N. Y.; 400 boxes 14-
inch double glass; quantity wrought iron
pipes; boilers; ventilating apparatus and
sash; 4 complete greenhouses, 25 x 175; sell
very cheap; remove at once. I. SUESSER-
MAN, 104 Ridgewood Ave., Newark, N. J.**SEEDS, BULBS, FERTILIZERS,
SUNDRIES.**Fottler, Fiske, Rawson Co., Boston, Mass.
For page see List of Advertisers.**SPRING BEDDING STOCK.**R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.**SPRING BULBS.**Arthur T. Boddington Co., Inc., New York
City.
For page see List of Advertisers.



If you need a boiler in a hurry telephone or telegraph at our expense

KROESCHELL BOILERS

SEND FOR CATALOG

Kroeschell Bros. Co., 466 W. Erie St., Chicago



Gulf Cypress Greenhouse Materials

We sell all the parts necessary for the construction of a complete greenhouse, for those who want to do their own erecting.

We mill all parts to fit. All you have to do is assemble them.

Put Your Greenhouse Problems Up To Us

We go anywhere in the U. S. to submit plans and prices.

Metropolitan Material Co.
PATENTED GREENHOUSES

1297-1325 Flushing Ave., Brooklyn, N. Y.

WE ARE SPECIALISTS IN GREENHOUSE GLASS PAINTS and PUTTY

IROQUOIS WHITE (Semi-Paste).
Most Perfect White Paint Made.

Be sure to get our estimates.

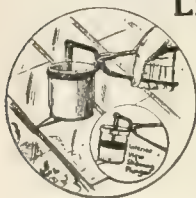
The **DWELLE-KAISER Co.**

241 Elm St., BUFFALO, N. Y.

THE ONLY PERFECT LIQUID PUTTY MACHINE

WILL LAST A LIFETIME
\$1.25 each

Adjustable—can and frame separate—easily cleaned. Frame all one piece, of malleable iron. More practical and more easily operated than any other.



SEAL TIGHT LIQUID PUTTY
\$1.35 per gallon

In 10 gallon lots. \$1.40 per single gallon.

METROPOLITAN MATERIAL CO.
1297-1325 Flushing Ave., BROOKLYN, N. Y.

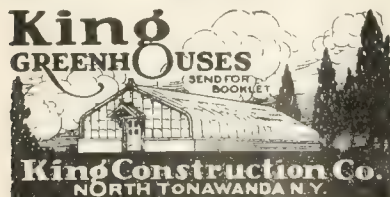
Use the only shading

E. A. LIPPMAN

6 HIGH STREET

Morristown, New Jersey

Send for Booklets



SASH GO UP AND DOWN EASIER

and faster when an **ADVANCE** sash Operator is attached on them. Get our catalog on

GREENHOUSE FITTINGS

AND

OPERATING DEVICES

FREE IF YOU ASK

ADVANCE CO. Richmond, Ind.

CYPRESS GREENHOUSE STOCK

PECKY CYPRESS STOCK

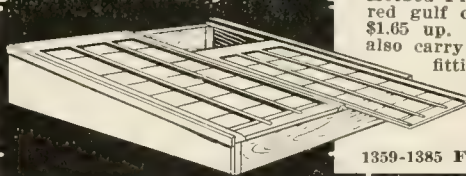
HOT BED SASH

Ask for Circular D and Prices

THE A. T. STEARNS LUMBER COMPANY

NEPONSET, BOSTON

JACOBS GREENHOUSE SUPPLIES



Hotbed Frames from 80c. up; very best clear red gulf cypress. Glazed Hotbed Sash from \$1.65 up. Double light Sash up to \$4. We also carry glass, pecky cypress, boilers, pipe, fittings, putty, etc.—in fact everything for greenhouse construction. Get our prices today—they're right!

S. Jacobs & Sons

1359-1385 Flushing Ave. BROOKLYN, N. Y.

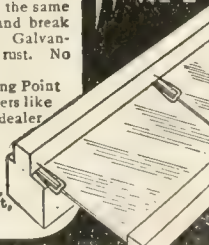
Dreer's Peerless Glazing Points For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts. The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid.
Samples free.

HENRY A. DREER,
714 Chestnut Street,
Philadelphia.

FULL
SIZE
No 2



PATENTS

Trademarks
and Copyrights

Difficult and rejected cases specially solicited. No misleading inducements made to secure business. Over 30 years' active practice. Experienced, personal, conscientious service. Write for terms. Address,

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

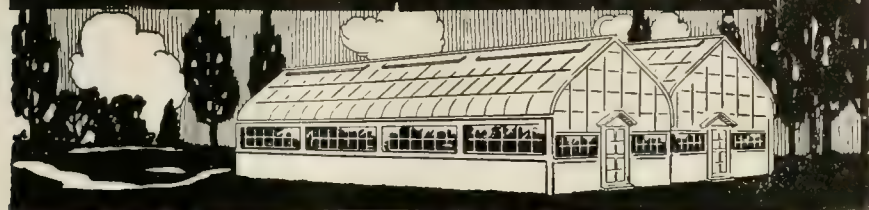
When writing to Advertisers kindly mention Horticulture

JACOBS BUILT TO LAST GREENHOUSES

For three generations we have been builders of greenhouses. The vast experience accumulated in those years means trustworthy service to our customers. Prices of material have been advancing steadily—it looks as though present prices will not hold much longer. Protect yourself, by ordering now for future delivery. We also furnish greenhouse supplies at rock-bottom prices. Write us—today—for our catalog and advice.

S. JACOBS & SONS

1359-1385 Flushing Ave. Brooklyn, N. Y.



FOLEY MATERIALS

ARE THE BEST FOR

Iron Frame, Pipe Frame or Wood Frame GREENHOUSES

Estimate and Sketch Submitted Promptly

THE FOLEY GREENHOUSE MFG. CO.

3275 West 31st Street, CHICAGO, ILL.

HOT BED

GLASS GREENHOUSE

BEST BRANDS

LOWEST PRICES

SHARP, PARTRIDGE & CO.

2263 Lumber Street, CHICAGO

MOST PRACTICAL Shelf Bracket



20c
With Bolts
Complete

On this Shelf Bracket 2 6-inch boards; or 2 1-inch, or 1 1/4-inch pipes are placed, and can be clamped to either ridge or purlin columns. Flats, 12x20x3 in., 7 cents.

Non-Kink Woven Hose



In any length (one piece) with couplings, 15c. per foot. Remnants 15 to 30 feet, coupled, 10c. per linear foot. Unequaled at the price.

Hose Valve—70 Cents



All brass except the hand wheel. Has a removable leather disk which is easily replaced to keep water-tight. Stuffing box prevents leaks at stem.

Metropolitan Material Co.
PATENTED GREENHOUSES

1297-1325 Flushing Ave., Brooklyn, N. Y.

When writing to advertisers kindly mention HORTICULTURE.

MASTICA



For Greenhouse Glazing

USE IT NOW

F. O. PIERCE CO.

12 W. BROADWAY
NEW YORK

Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.



Evans 20th Century Arm

Most up-to-date arm on the market. Proof that it is better than any other is that others tried to imitate it. Write for our 1916 catalog just out.

JOHN A. EVANS CO.
Richmond, Ind.

The Florists Hall Association rate of insurance from Nov. 1st, 1916 to Nov. 1st, 1917 will be twenty cents per hundred square feet of single thick glass and eight cents per hundred square feet of double thick glass. For particulars address JOHN G. ESLER, Sec., Saddle River, N. J.

Metropolitan Greenhouse Reorders



Reorder customers, are, after all, the greatest assets any business can boast of. Reorders are absolute, undeniable proofs of satisfaction, in every respect—quality, economy and service.

The first greenhouse (the one in the foreground) is a portable house, which was erected for the Hicks Nurseries, Westbury, L. I., for experimental purposes. The results obtained therein were so surprising that a second one of our patented construction was erected, and now their third greenhouse (the one in the background) has just been completed. Notice that provision has been made to extend this house to larger proportions when desired.

These reorders from so prominent a concern should be ample proof of this organization's satisfactory service.

PUT YOUR GREENHOUSE PROBLEMS UP TO US

We go anywhere in the U. S. to submit plans and prices.

Metropolitan Material Co.
PATENTED GREENHOUSES

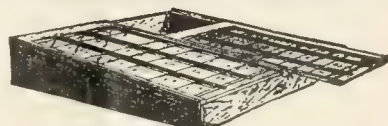
1297-1325 Flushing Ave.,
Brooklyn, N. Y.

GLASS

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APRIL 21
1917

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All of the above and many others are fully described in our current Wholesale List, January to June, which will be mailed upon request only to persons engaged commercially in Horticulture.

HENRY A. DREER

714-716 Chestnut Street,

Philadelphia, Pa.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toil, we ought to blame the culture, not the soil."—Pope.

Asters

There is no doubt that the finest asters are raised on light, sandy soils, deeply plowed or dug and quite heavily fertilized with rough barnyard manure the year previous. I like to have the land well plowed, manured and thoroughly prepared in October or November. Where this was not done prepare the ground now by giving a large amount of barnyard manure and a good sprinkling of bone dust and wood ashes which should be thoroughly incorporated with the soil. It will always be more profitable to fertilize one piece of ground well than a larger piece imperfectly. Indoor grown plants should first be well weaned to open air conditions by placing in a cold frame where during good days the sashes can be removed. Prick out the stock as soon as they are ready.

Camellias

Those who grow camellias that are wanted in bloom by Christmas should by this time have them started into new growth. They should have abundance of water in their growing season, but soil must not be kept in a soaked condition. The plants require a shaded house during the summer. They are much more easily managed under glass than when put in the open. When they have just fully completed their season's growth, which can be easily known by the developed terminal leaf of each new shoot, withhold water until the new growth shows signs of flagging which will cause the forming of a fine crop of flowers instead of the buds dropping before opening. All through the summer keep them growing by giving plenty of water at the roots, with a good syringing during bright weather.

Place Stock in Frames

Get the cold and hot frames into shape at once, ready for business. A lot of stock can be brought out and do as well, if not a lot better than in the greenhouse. Almost anything will thrive in a congenial frame. As chrysanthemums come along these, too, can go out and are as well off in a frame; in fact all cold house stock can soon be moved and valuable space can be obtained in this way indoors. It wouldn't do to take freshly potted, rooted cuttings and place them into a frame at this time, but stock which has been potted up a month or more and has been kept in a well ventilated house can go out and will not suffer much if the temperature should go down near the freezing point.

Next Week:—Bougainvilleas; Compost; Tuberous Rooted Begonias; Pelargoniums; Phalaenopsis; Reminders.

Summer Climbers

If you haven't sown maurandia do so at once. This beautiful little trailing plant comes in handy for the filling of small hanging baskets and window boxes. Thunbergia is another. Where a mixture of plants can be used in a window box or vases it should be included. Sow now and let the plants come along in a house with plenty of moisture. It is time to sow Cobaea scandens. We can't do without this useful summer climber. The plants toward the end of April and early May will grow six inches over night and it keeps one busy tying them up. When the seedlings are large enough to handle pot into 2½ in.; pinch back and shift into 4 in. or 5 in. pots and give each a good stake. The variegated glechomas which have been overwintered in a frame or cold house, should now be brought to a carnation house temperature, divided and planted into 3½-in pots.

Swainsonas

Where you have some pot plants give them a temperature of from 55 to 60 degrees at night. Plants that have been growing thrifty will have a lot of material fit for propagation. The best cuttings are those selected out of the axil formed by the leaf and main stem. These can just be pulled out sideways and will not need any trimming. Place in a moderately warm propagating bench and by keeping them shaded and watered for about twelve to fifteen days they will root nicely, after which they can be potted into 2½-inch pots using a compost of fibrous soil three parts, leaf mold and well rotted cow manure one part each. Keep shaded and moist for a week or ten days and they will be all right. Shift as they may require it so as to keep them moving.

Reminders

Keep spreading out the bedding geraniums, as you can afford them more bench space.

Sow cornflowers, annual chrysanthemums, mignonne and other hardy annuals in clumps and lines.

Smilax that has been cut down for Easter and has been kept on the dry side since, should now be in good shape for mulching, restringing and starting again.

Water pansies in frames freely. Remove the sashes during the daytime and on warm nights. To keep them stocky take away the last of the mulching from outdoor plants.

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Horticulture

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Horticulture coming into its own

Prof. A. S. Thurston's account of what they are doing in the Iowa State College to teach practical horticulture, which appeared in last week's edition of this paper, shows that they are working on right lines and are "getting there" and the course being pursued will go far to strengthen the tie that binds commercial floriculture and the more progressive and wide awake of the state agricultural institutions. The methods of training now prevalent in such places as Ames, Cornell and Amherst gives promise of a particularly high class of intelligence and ability in the coming generation of florists. This somewhat tardy recognition has been worthily won by the men engaged in floriculture. They had to go it alone for many, many years.

Misrepresentation

The ignorant and "irresponsible" newspaper reporter is certain to break out somewhere when Easter

or any other floral day comes around and his statements are made with a reckless disregard of their authenticity or of the injury their publication may inflict upon the florist business. This time he seems to have got loose in Pittsburgh for the Easter season for after telling the readers of one of the leading dailies of that city that "nine out of every ten persons on the streets had some kind of a plant or bloom in their arms or on their clothing" he goes on to state that violets were \$3.00 a bunch in the high-priced shops and 25 cents on the street corners" and that "sweet peas that brought \$2.50 a bunch in the larger shops could be purchased for 15 cents in the market district"! A pretty strong indictment, surely of the methods of the Pittsburgh markets and of the "larger shops."

By permission of the publishers we have the pleasure of presenting to the readers of **A tree hunt** HORTICULTURE some very interesting extracts from one chapter in the new book by E. H. Wilson entitled "Aristocrats of the Garden." The engrossing story of how Mr. Wilson found *Davidia involucrata* in the wilderness of China fills twenty pages in the book, and our available space would only admit a small part of it. Enough is given, however, to deeply interest any tree lover and show them how our gardens came into possession of one of the most beautiful and remarkable of all trees. Without any of the overdrawn features which orchid collectors and others have sometimes indulged in and told in Mr. Wilson's simple narration of the difficulties which confronted him should awaken a better appreciation of the men and the means whereby our gardens become enriched with the multitudinous gems from distant lands; of the time and money spent in the quest and of the toll paid in human energy and life. It has been truly said that "if the denizens of our gardens could give speech their story would be more engrossing and romantic than that told or conceived by authors of the "best sellers."

THE STORY OF THE DAVIDIA

In the year 1899, under instructions from Messrs. Veitch, E. H. Wilson set out from Liverpool for the interior of China in search for *Davidia involu-crata*. In the new book, *Aristocrats of the Garden* by Mr. Wilson, published by Doubleday, Page & Co., is given a description of the voyage and the subsequent adventurous land journey—a most entertaining narrative of travel by primitive means, through many perils, at a period of insurrection and riot. A country about the size of New York State was laid out for the search which happily resulted in the introduction of every known seedling plant, but one of this remarkable tree. Our readers' will be interested in the following brief portion of Mr. Wilson's narrative.

Ichang, where I arrived on Feb. 24, 1900, was to be my headquarters for two years so I made plans accordingly. I purchased a boat of good size in which to live and to serve as a base of supplies, and engaged some countrymen to assist me in collecting. The all-important arrangements completed, a series of short prospecting trips up country from Ichang were undertaken for the purpose of getting some acquaintance with the flora and for testing and training my men. By the middle of April (one year after the start from Liverpool) everything was ready to start in quest of the *Davidia*. On a half page of a notebook Dr. Henry had sketched a tract of country about the size of New York State and had marked the spot where he had found growing a single tree of the *Davidia*, the only example he had discovered in a trip which extended over six months and the only one he had ever seen. The place was among high mountains in the sparsely populated region bordering the provinces of Hupeh and Szechuan and south of the mighty Yangtsze River. This locality was my destination and this solitary tree my sole objective.

On the morning of April 15 I left Ichang in my boat, to ascend the Yangtsze as far as the district city of Patung where I arrived on the 21st idem. The journey was exciting, for the rapids which are very numerous were at that season difficult to negotiate. Twice we ran on rocks and had to repair damage. At the worst rapid the boat all but capsized and there were other and numerous incidents which space will not allow me to mention in detail. At Patung the head official did his best to frighten my men and begged me to abandon the enterprise. Finally, his efforts proving of no effect, he promised an escort of six soldiers and washed his hands, as it were, of the business. The man was in earnest and genuinely afraid for my safety. Some two years before there had been much trouble in this region. Rioting between anti-Christian and Christian villagers had taken place; hundreds of lives had been lost and whole villages burnt to the ground,



DAVIDIA INVOLUCRATA.

and a Roman Catholic priest—Pere Victorin—brutally murdered and his corpse barbarously mutilated. A feeling of bitterness and hate still rankled and there was grave danger of some untoward incident causing the smoldering anger to blaze out afresh. Of all this I was fully aware, but my mission was to obtain *Davidia involu-crata* and in furtherance of this I did not think of causing trouble of any kind.

Having arranged for my boat to journey some fifty miles upstream to Paishih I left Patung on the morning of April 22nd, and followed a paved steep road. On the evening of the 23rd idem I reached the Roman Catho-

lic Mission station at Hsi-sha-ho and found I was the first foreigner, save Roman Catholic priests, to visit the place since Dr. Henry. I found here a Belgian priest, on a visit to his converts. He—courteous and scholarly, like all his class—made me welcome. He had been the companion of the priest murdered two years before and he gave me a full account of the whole tragedy. In his Bible he carried a set of photographs of the late Pere's remains—gruesome, nauseating and horrible to look upon. The affair had taken place some fifteen miles from Hsi-sha-ho and my host said he expected trouble again this year, as, two weeks before, a party of outlaws had

tried to burn down his house but, luckily, had failed.

Leaving the priest to his work, his gloomy forebodings on the future, and the tragic memories of his lamented companion, I took a cross-country road and on the afternoon of the 25th reached the hamlet of Ma-huang-po and the house where Dr. Henry had stayed when he found the *Davidia* tree on May 17, 1888. Did the people remember Dr. Henry? Did they know the K'ung-tung (local name of *Davidia*)? To these and similar questions they pleasantly answered in the affirmative. Would some one guide me to the tree? Certainly. We sallied forth, I in the highest of spirits. After walking about two miles we came to a house rather new in appearance. Near by was the stump of Henry's *Davidia*. The tree had been cut down a year before and the trunk and branches formed the beams and posts of the house! I did not sleep during the night of April 25, 1900.

On the first of May I was back at Ichang with my mind made up to collect all the plants I could in western Hupeh during the year, and in the late winter journey westward a thousand miles, and there hunt for the *Davidia* in the region where it was first discovered by Pere David in 1869. With this resolution made I let the subject drift from my mind. On May 19th when collecting near the hamlet of Tawan, distant some five days southwest of Ichang, I suddenly happened upon a *Davidia* tree in full flower! It was about fifty feet tall, in outline pyramidal, and with its wealth of blossoms was more beautiful than words can portray. When figuring Henry's fruiting specimens in Hooker's "Icones Plantarum" [XX. t. 1961, (1891)] the Keeper of the Kew Herbarium wrote: "*Davidia* is a tree almost deserving a special mission to western China with a view to its introduction to European gardens." On beholding this extraordinary tree for the first time I no longer marvelled at the Keeper's strong language. And now with a wider knowledge of floral treasures of the Northern Hemisphere I am convinced that *Davidia involucrata* is the most interesting and most beautiful of all trees which grow in the north temperate regions. The distinctive beauty of the *Davidia* is in the snow-white connate bracts which subtend the flower proper. These are always unequal in size—the larger usually six inches long by three inches broad, and the smaller three and one half inches by two and one half inches; they range up to eight inches by four inches and five inches by three inches. At first greenish, they become pure white as the flowers mature and change to brown with age. The flowers and their attendant bracts are pendulous on fairly long stalks, and when stirred by the slightest breeze they resemble huge butterflies or small doves hovering amongst the trees. The bracts are somewhat boat-shaped and flimsy in texture, and the leaves hide them considerably, but so freely are they borne that the tree, from a distance, looks as if flecked with snow. The bracts are most conspicuous on dull days and in the early morning.

Later, I found two other trees in the same neighborhood and, in localities

varying from fifty to one hundred miles apart, eight others. These eleven trees were carefully watched through this anxious year of the Boxer trouble; they fruited freely, and in November I gathered a rich harvest of seeds which were despatched to England, where they safely arrived in due course. In 1901, when on an expedition through the northwest of Hupeh, I discovered the *Davidia* in quantity and more than a hundred trees became known to me. From these hundred trees I did not secure a hundred seeds, and during subsequent visits to China extending over a decade I never again saw *Davidia* fruiting in the manner it did in 1900. The fruit may be likened to that of a walnut, but is more or less ellipsoid, or, more rarely, roundish in shape and about one and one fourth to one and three fourths inches long. The color is greenish russet and slightly reddish on one side and the flesh is very thin and gritty. The "nut" consists of a number of seeds arranged around an axis and embedded in woody tissue as hard as flint and absolutely unbreakable. On their arrival in England in the early spring of 1901 the "nuts" were sown in various ways—some in strong heat, some in boxes and pots and placed in various temperatures, others (and the larger quantity) out of doors in a prepared seed-bed. Some were soaked in hot water, some in cold, others were filed down—in short, everything that a skilled and resourceful propagator could think of was put in operation. Weeks passed, months passed, and nothing happened. When I reached England at the end of April, 1902, not one seed had germinated and grave fears were expressed—failure almost anticipated. I made it my first business to examine the seeds. Those indoors under various conditions, save for being blackened, exhibited no apparent change and no signs of germination. Those in the seed-bed out of doors had been subjected to the winter's frost, and on digging out, a few signs of change were apparent. Some of the "nuts" exhibited slight longitudinal cracks from the summit to about two thirds down; in others a narrow valve-like shutter was forced back slightly and the tip of a root showed clearly. All was well. In a month or so thousands had sprouted, and from this bed an assistant and I potted up more than thirteen thousand plants, of which nearly every one grew. Of the seeds sown indoors scarcely a single one ever germinated.

I brought home with me, in 1902, three or four living plants and these were planted in various positions in the Coombe Wood nursery and in the summer grew amazingly. So, too, did the seedlings, and *Davidia* immediately made itself at home in England. The first to flower in England was a seedling plant in the Coombe Wood nursery in May, 1911, and a cut branch was exhibited by Messrs. Veitch at the famous Temple Show on May 23rd, and received a First Class Certificate—the Royal Horticultural Society's highest award. Since that date many have flowered in various places and fruit was produced in 1915. In Kew Gardens there are now trees nineteen feet tall and thirteen inches in girth of stem.

TWO WILSON LILIES

During the year it has been possible to set at rest all doubt as to the specific distinction between two Western Chinese Lilies, *L. Thayerae* and *Willmottiae*, concerning the relationship of which there has been a good deal of doubt since Wilson put them into Western hands some years ago.

Though there has never been any difficulty in distinguishing typical plants one from the other, a general and superficial family resemblance is probably responsible for the notion that the two plants are but forms of the same thing. If all else failed, however, it seems clear from an examination of the capsules that the two lilies should be kept apart.

L. Thayerae originally came into cultivation from Messrs. Veitch's nursery as *L. sutchuenense* (Franchet), under which name it is grown at Kew, and it has always been a little difficult to understand how the robust and floriferous plants one may see in bloom at Kew ever came to be regarded as identical with Hooker's dwarf and lax-stemmed *L. sutchuenense* of the *Bot. Mag.*, t. 7715.

The identity of *L. Willmottiae* (Wilson) is even now not certain, and Wilson inclines to the view that it may be the true *L. sutchuenense* of Franchet, not to be confused with *L. sutchuenense* of the *Bot. Mag.* around which a fog of uncertainty and doubt has gathered. The point will doubtless be cleared up ere long, and, however that may be, there is no question but that *L. Willmottiae*, as we must continue to call it for the present, is a remarkably fine garden plant, distinct from any others of the pseudotigridium section which have come under our notice up to the present. —*A. Grove in Gardeners' Chronicle, London.*

Plant Propagation, Greenhouse and Nursery Practice

By M. G. KAINS

We have had many inquiries from time to time for a reliable and up-to-date book on plant propagation, but were always at a loss to find any publication that we could recommend. The subject has been dealt with in fragmentary manner only in books that have come to our notice. So it is well that this new work has been issued, especially as it is both comprehensive and practical, and it should meet with a ready sale among plantmen, nurserymen and gardeners. There are nineteen chapters covering in detail topics of germination and longevity of seeds, propagating by buds, layering, cuttings, grafting, etc., fruit tree stocks, clones, etc., and there are eight pages of condensed cultural instructions in tabulated form, covering annuals and perennials from seed, woody plants, evergreens, vines, bulbs and tubers, greenhouse and house plants, ferns, palms, water plants, orchids and cacti. The illustrations are numerous, comprising 213 figures and half-tone plates. There are 322 pages well bound and on heavy paper, teeming with helpful information. It is a book which no cultivator can afford to do without. It is worth many times its price. Copies can be supplied from the office of HORTICULTURE at publisher's price, \$1.50.

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CLUBS AND SOCIETIES

DINNER OF THE "INTERNATIONAL" FLOWER SHOW COMMITTEE.

The labors of the joint committee of management of the 1917 International Flower Show, New York, were brought to a close with a business meeting and banquet at the Hotel Biltmore, on Thursday evening, April 12th. There was a full attendance, and the only guests were Messrs. Kerbel and Colwell, the publicity agents, Arthur Herrington, exhibition manager, and William Delano, the well known architect and landscape artist.

The menu was excellent, and the spirit of the success of the Show was manifest in the discussion of this most important feature of the function. Chairman T. A. Havemeyer presided, and in the early course of the proceedings singled out Chas. H. Totty, Chairman of the Board of Jurors, by pressing upon that gentleman the acceptance of a beautiful diamond pin, a mark of appreciation by his fellow members of his work in connection with the flower shows generally, and especially of his great ability shown in the organization of his co-workers in the difficult task of making awards. Mr. Totty, taken by surprise, made a feeble but heart-felt response, assuring the committee that his efforts had resulted from a sense of duty to his fellows and the objects of the shows, sentiments which, without doubt, actuated also the work and interest of all the other members of the committee. Record of the work of individual members of the committee was not wanting. A vote of thanks to the Secretary was unanimous, as was a similar vote to Treasurer F. R. Newbold for his interest and influence, strong factors in the success of the show, also a standing vote of thanks to Chairman T. A. Havemeyer who had devoted so much time to the work of the show.

Everybody seemed happy over the reported financial success of the Fifth International Flower Show, and several made speeches expressing their feelings in this respect, promising their best efforts to promote the 1918 show and carry it to a successful termination.

The arrangement of the next show was the prime object of a discussion which amply supplied the entertainment feature of the dinner. Each member of the committee was ripe with suggestions, and Mr. Delano capped them all with some that might be considered ultra professional. If all the ideas formulated at the dinner, as to fountains, grottoes, gardens, hanging gardens, winding paths, secluded nooks, and the like, take shape, the next show will be, indeed, a "PARADISE."

Richard Holloman, who is nothing if not original, declared that he would have a model of the next show prepared beforehand so that there should be no danger of an idea going astray. He also announced that by the time of the next show there would be a subway station at the entrance to the Grand Central Palace, from which

Meetings Next Week

Monday, April 23

Florists' and Gardeners' Club of Rhode Island, Swartz Hall, Providence, R. I.
Gardeners' and Florists' Club of Baltimore, Florist Exchange Hall, Baltimore, Md.

Tuesday, April 24

Newport Horticultural Society, Newport, R. I.
Tarrytown Horticultural Society, Tarrytown, N. Y.

Wednesday, April 25

Oyster Bay Horticultural Society, Oyster Bay, N. Y.

Friday, April 27

Connecticut Horticultural Society, County Bldg., Hartford, Conn.
Monmouth County Horticultural Society, Red Bank, N. J.
Pasadena Horticultural Society, Pasadena, Calif.
People's Park Cottage Gardeners' Association, Paterson, N. J.

Saturday, April 28

Dobbs' Ferry Gardeners' Association, Dobbs' Ferry, N. Y.

trains would connect with the whole subway system, facilitating travel to the show. Having thus said, Mr. Holloman waved the national flag and called upon all to sing "The Star Spangled Banner," and the anthem was sung with spirit, although, be it related, Mr. Holloman appeared to be sponsor for the general run of the versification.

This proceeding ended one of the most enjoyable dinners ever held in the trade, at least in New York. The tables were handsomely decorated with flowers by George E. M. Stumpp.

JOHN YOUNG, Secy.



PROF. E. A. WHITE.
Secretary American Rose Society.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Department of Plant Registration.

Public notice is hereby given that William E. S. Griswold, Wyndhurst, Lenox, Mass., Alfred J. Loveless, gardener, offers for registration the new *Laelia-Cattleya* described below. Any person objecting to the registration or to the use of the proposed name is requested to communicate with the secretary at once. Failing to receive objection to the registration the same will be made three weeks from date.

Description: — A hybrid between *Laelio-Cattleya* Gigris and *Laelio-Cattleya* Myra. Petals and sepals a rich golden yellow with dark purple lip. Flower four inches in diameter. Bulbs of medium height, slender, dark green in color. Received from England as an unnamed variety, possibly raised at Westonbirt, Col., Halford's estate. Name: — Adela Griswold.

JOHN YOUNG, Sec'y.

April 14, 1917.

NASSAU COUNTY HORTICULTURAL SOCIETY.

The regular monthly meeting of this society was held in Glen Cove, N. Y., on Wednesday, April 11th. First prizes were awarded as follows: John W. Everitt for pan of well grown tulips, *Couleur Cardinal*, and *Lilium Formosum*, also special mention for Lady Hillingdon and *Ophelia* roses. Robt. Jones, chairman of the executive committee read the schedule for the Annual Tulip Show to be held in Neighborhood House, some time in May. The schedule for the Annual Rose Show in June and the Annual Sweet Pea Show in July was also read and adopted. An essay by Prof. Arno H. Nehrling, entitled "Herbaceous Perennials We Should Grow" was read by Harry Goodband and a letter of thanks was ordered sent to the author. Exhibits for our next meeting, May 9th, are: 12 gladioli, 3 heads of lettuce and a vase of out-door flowers.

HARRY GOODBAND, Cor. Secy.

AMERICAN ASSOCIATION OF NURSERYMEN.

President John Watson of the American Association of Nurserymen has prepared and is distributing to those nurserymen who are not yet members of the Association a circular letter setting forth in a very exhaustive manner the excellent purposes of the Association, its many lines of activity for the welfare of the American nursery trade and the reasons why everyone engaged in the nursery business should avail themselves of the valuable privileges it offers. The Association of Nurserymen certainly has a "live wire" in President Watson.

GARDENERS' & FLORISTS' CLUB OF BOSTON.

There was a large attendance at the meeting of the club Tuesday evening, April 17th, 120 members being present. Six new members were elected.

F. W. Fletcher exhibited a collection of antirrhinum, also a new form of *Asparagus Sprengeri*, for which he was awarded honorable mention. S. J. Goddard showed a fine vase of a new pink snapdragon. Charles Cooper, gardener for Miss Amy Lowell, exhibited *Cattleya Thayeriana* and was awarded a cultural report of merit.

There were several communications from the Governor of Massachusetts and various committees in regard to increased food production. These were discussed at length by many of the members, and the club pledged itself to assist food production in every possible way by speaking to people about it and giving advice at all times.

George N. Barrie, Chestnut Hill, delivered a stereopticon lecture, with about 75 pictures, on Artificial Irrigation. It was a most interesting and practical lecture, and at the conclusion was followed by quite a lengthy discussion.

Another somewhat lengthy debate was entered into by many present as to the proper preparation of the soil for vegetable and flower growing and if the regular barnyard manure for fertilizing was the best to be used, and it was the consensus of opinion that where this can be procured, barnyard manure is the best.

At the next meeting, E. I. Farrington will lecture on "What's new in the garden," both flowers and vegetables, illustrated by stereopticon.

The meeting adjourned at 11.15.

CHICAGO FLORISTS' CLUB.

The Chicago Florists' Club held its regular meeting Thursday, April 5th, at the Quincy restaurant, at the corner of Randolph and La Salle streets. In the absence of the president and vice-president, W. J. Keimel presided. The subject of Mothers' Day and how to make the most of it, was the chief topic for discussion. Fred Lautenschlager, chairman of publicity committee submitted a poster and posterettes which met with the hearty approval of the club. The sentiment expressed, "Remember your mother with her favorite flower," seemed to appeal to all. The committee reported that the idea is not to make money for the club but that all in the trade should be benefited. T. E. Waters introduced the subject of a July picnic and in spite of the chilly weather the matter was received with some enthusiasm. The trustees were instructed to secure a permanent meeting place for the club. Anton Then spoke in favor of the club taking immediate steps to secure coal for next year, believing

that by buying in a body better terms might be secured. The matter was referred to a committee consisting of Anton Then, Chas. Hunt and H. G. McClellan. Paul Klingsporn reported the meeting of the directors of the S. A. F. in New York, to which he was delegate from the Chicago Florists' Club. New members admitted were H. C. McClellan, E. A. Bebb and E. C. Bowen.

Coming Exhibitions

Philadelphia, Pa., June.—Exhibit American Peony Society.

Pittsburgh, Pa., June 13-16.—Flower Show at Motor Square Garden under the auspices of the Garden Club of Allegheny County.

Rochester, N. Y., June 15.—Peony Show of the Rochester Florists' Association, at Convention Hall.

Hartford, Conn., June 18-20.—Rose Show, Elizabeth Park, by the American Rose Society.

Boston, Mass., June 23-24.—Rose, Peony and Strawberry Exhibit, Massachusetts Horticultural Society.

Newport, R. I., July 4.—Show of outdoor Roses by the American Rose Society.

Boston, Mass., July 7-8.—Annual Exhibit of the American Sweet Pea Society, under the auspices of the Mass. Horticultural Society.

Winnetka, Ill., July 12.—Exhibit Flowers and Vegetables.

Winnetka, Ill., Aug. 16.—Asters, Gladioli and Dahlias.

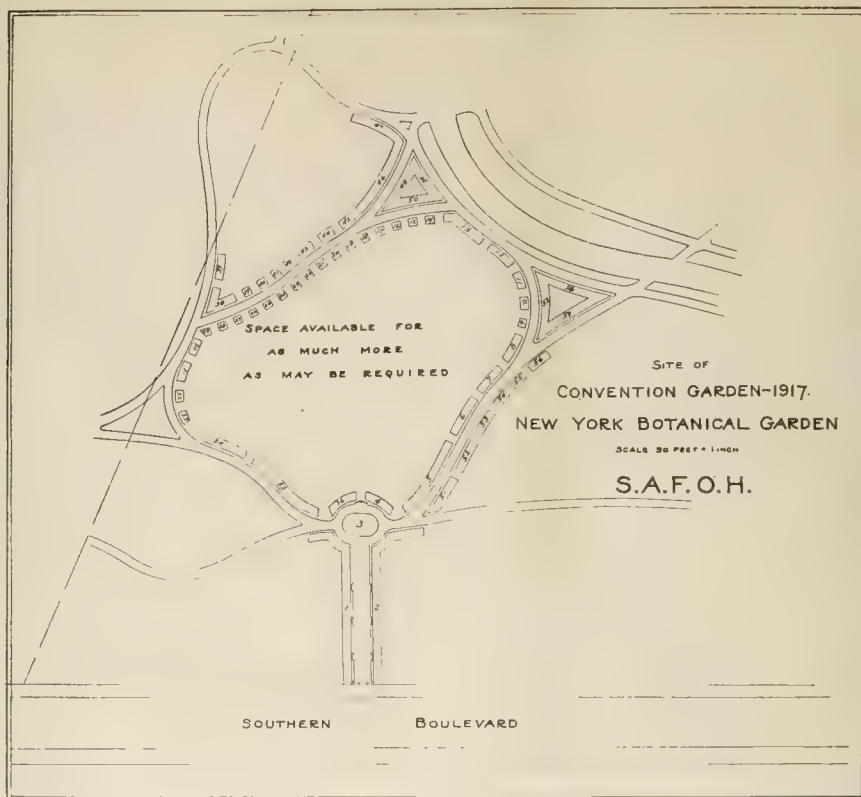
New York, August 23-26.—Eighth Annual Exhibition American Gladiolus Society, Museum Building, Botanical Gardens, Bronx Park.

Newport, R. I., Sept. 5-7.—Annual Fall Show, Newport Horticultural Society.

Tarrytown, N. Y., Nov. 7-9.—Annual Fall Show, Tarrytown Horticultural Society.

Syracuse, N. Y., Sept. 10-15.—New York State Fair.

San Francisco, Calif., Sept. 21-22.—Show of the California Dahlia Society.



WESTCHESTER AND FAIRFIELD HORTICULTURAL SOCIETY.

At the monthly meeting of this society, held in Greenwich, Conn., on Friday evening, April 13th, there was a very good display of exhibits, for which the judges awarded cultural certificates to A. Bishkie for French hydrangeas and to Wm. Graham for a display of schizanthus; high commendation to Robt. Gruenert for carnations and for tulips, to Fred Metzler for chrysanthemum Seven Oaks, and to Jas. Linane for calceolaria; thanks of the society to C. Hakanson for sweet peas, John Andrews for begonia, Robt. Gruenert for chrysanthemum Frank Wilcox, Wm. Whitton for schizanthus and carnations, and to P. W. Popp for standard rhododendron.

First prize for the most meritorious exhibit was awarded to A. Bishkie for hydrangeas; 2nd to Wm. Graham for schizanthus and 3rd to Robt. Gruenert for carnations.

H. B. Read of Conyers Farm, Greenwich, gave a very interesting lecture on "Fruit Farming."

ALEX. CLARKSON, cor. Secy.

RHODE ISLAND HORTICULTURAL SOCIETY.

The April meeting was held in Manning Hall, Brown University, April 18, 1917. Carl Bannwart, secretary of the Newark, -N. J., Shade Tree Commission, gave an illustrated talk on the "City Beautiful," showing many beautifully colored slides. The Providence Chamber of Commerce and the Rhode Island State Board of Agriculture co-operated with the society in making arrangements for this lecture. Much practical information was given regarding the beautifying of towns and cities through planting-day campaigns.

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CLUB AND SOCIETY NOTES.

The regular monthly meeting of the Mount Kisco (N. Y.) Horticultural Society was held on Tuesday, April 10. Mr. Gordon and Mr. Connolly exhibited. The former received 90 points for lily of the valley and 80 for schizanthus, the later for sweet peas 80 points, carnations 75, stocks 60 and mushrooms 80. James T. Scott, of Elmsford, talked on Roses, which was certainly enjoyed. Mr. Scott accorded a standing vote of thanks. All exhibits of flowers were sent to the local hospital. In May, Miss Martha H. Miller will talk to us on some topic, probably in the afternoon.
A. G. Ross, Sec'y.

At the monthly meeting of the Sewickley (Pa.) Horticultural Society on April 10 the Constitution was changed to read, "Persons who have furthered the interests of horticulture in connection with our Society, may be elected honorary members, and it was resolved to invite a number of residents of Sewickley interested in the Society to become honorary members. M. Curran, J. Barnet and A. Etherington were appointed schedule committee for the coming September show, and a motion was carried that the Society would finance the purchasing of seeds for the school children competing at the same show. It was agreed to send the monthly exhibits to the Sewickley Valley Hospital. There was an interesting discussion on the best varieties of apples and other fruits.
JOHN CARMAN, Sec'y.

INSECT AND ANIMAL PESTS OF THE GLADIOLUS

From Cornell Extension Bulletin by Alfred C. Hottes.

It seems safe to say that there is really no insect that is seriously injurious on the gladiolus. Dombrown (1873) reports serious damage in England due to wireworms. He believes that freshly turned-up sod should not be used, and writes as follows: "Three years ago I planted mine in a part of my garden which had up to two years before that been a meadow, and the previous season had potatoes in it. Half my roots were devoured by wireworms, the destructive little things eating through the shoot just as it appeared above ground." W. P. Wright also mentions wireworms, in **Popular Garden Flowers**. He states that the grubs fasten on the corms in myriads, and soon make short work of a large collection. He recommends that if the corms are planted on new land from pasture, the turf should be taken away, not turned in, however deeply, and in the spring before planting Vaporite or Aporite should be dug in nine or ten inches below the surface.

The writer has seen no reference to injury from wireworms in this country. Weather (1911) recommends trenching three feet deep in autumn, burying the topsoil containing the worms, and perhaps other grubs, at the bottom of the furrow. By this practice the worms are completely stifled and deprived of their vegetable diet; the subsoil will thus be free from the pest, and if well manured and exposed to the weather it will be in a good fertile condition in the spring. The writer has noted a slight

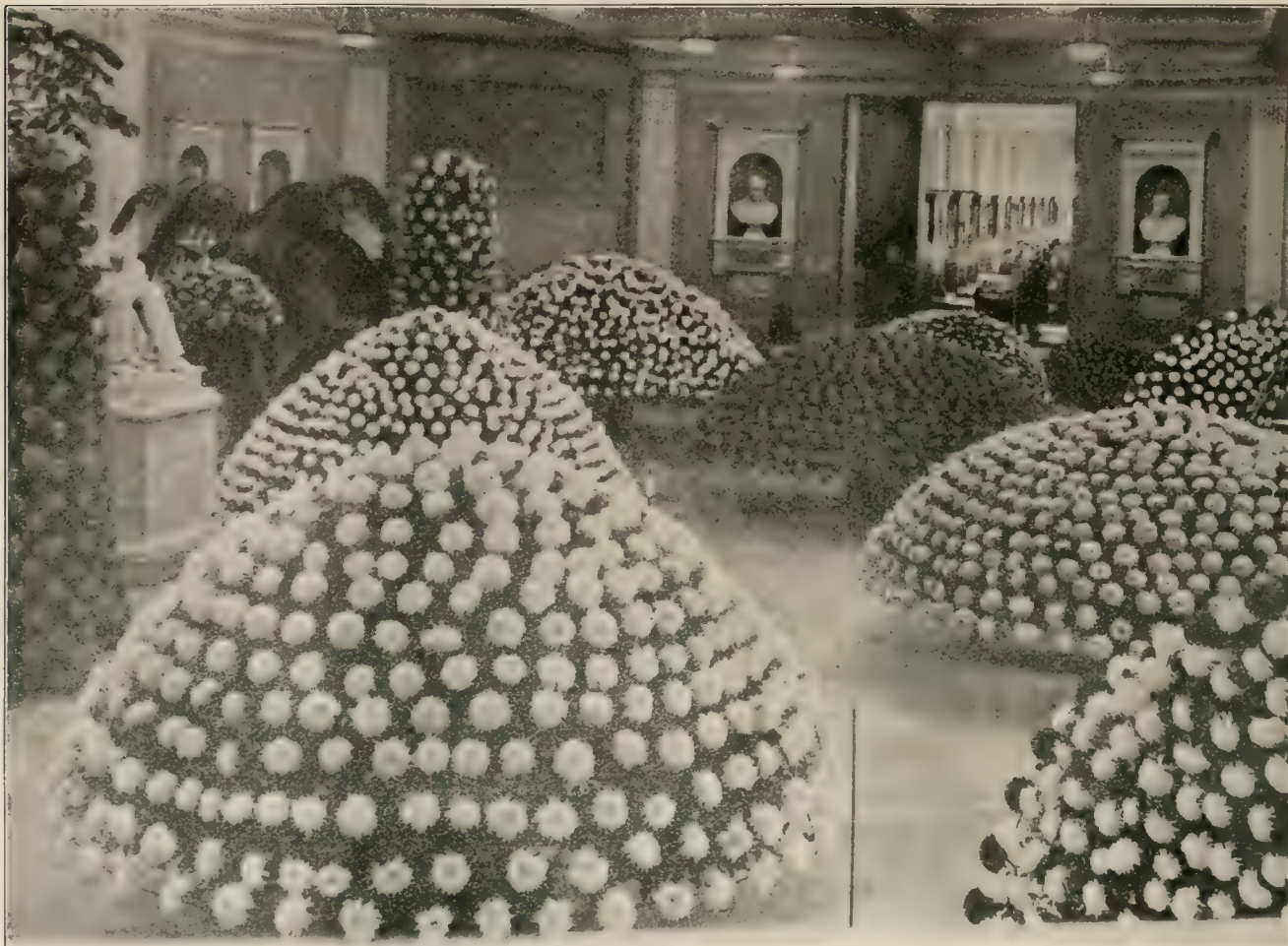
amount of injury due to the small wiry millepede, Chilognatha. This may be the "wireworm" already referred to. The millepedes may be observed in the ashes under pots of gladioli grown indoors, and many of them are also noticed on the outdoor corms at the time they are being overhauled for winter storage. The condition known as scab may be due to these millepedes, but this is not definitely proved. If the corms are left to dry in a barn for some time, the holes bored by the millepede are filled with a jelly-like substance which one might at first think is frost. The injury due to these millepedes differs from diseased corms in that the areas of their attack are of regular shape and are metallic in appearance.

Most of the damage to gladioli caused by insects is on the parts of the plant above ground. The black aster beetle seems troublesome to many growers, the damage being to both buds and flowers. This is especially true late in the season.

H. A. Richardson reports the occurrence of arctiid moths, undoubtedly a species of the genus of tiger moths, Eyprepia. These moths are gregarious in habit, and they injure the flowers and spikes, but mostly the cuticle of the leaves. Grasshoppers and katydids have been reported as eating the blooms.

The red spider (*Tetranychus telarius* Linn.) is especially troublesome in a very dry season. This is a small mite, one-fiftieth of an inch long, which spins minute threads that are scarcely perceptible to the naked eye but that when very abundant give a grayish appearance to the leaves. The insects

UNRIVALLED SPECIMEN CHRYSANTHEMUMS.

*Photo by American Press Association*

SPECIMEN TRAINED CHRYSANTHEMUM PLANTS.

By John Canning, Supt. for Adolph Lewisohn, Ardsley-on-Hudson, at Fall Show, New York, 1916.

In presenting the above picture it is almost needless to say that the exhibit portrayed was the work of that master of chrysanthemum training, John Canning, superintendent of the

Lewisohn estate at Ardsley, N. Y., for the marvelous products of Mr. Canning's skill are known far and wide. We show them at this season of the year as an incentive to those ambi-

tious growers who are now nursing the young material for next autumn's exhibitions, giving them an ideal to aim for, even if they cannot hope to equal the wondrous achievements of John Canning.

are rather reddish, though somewhat orange-tinged. Their principal injuries are to indoor plants, but they are also found in the open. When only a few are present they are not noticeable; but when they are abundant, the leaves become pale in color and stunted. They effect their injury by sucking the juices from the leaves. Indoors they are more resistant to fumigation than are aphids or thrips. As they are very sensitive to moist conditions, the main method of control is by a thorough syringing with water. Sanitary methods of keeping down all weeds harboring them, and burning infested parts of the plants, are of prime importance.

A number of cases of injury by a black blister beetle have been reported. This is no doubt a beetle of the genus *Epicauta*, or possibly *Meloe*.

Van Fleet and others report the occurrence of a *Diabrotica* beetle. These are yellowish green, much like the cucumber beetles. On the trial grounds at Cornell they caused some injury by eating the unopened buds.

If very plentiful they may be shaken on to sticky paper, as recommended by the California State Commission of Horticulture.

In **Success with Flowers** (Anonymous reference, 1901), a subscriber who inquires as to effective treatment for a root aphid, or root louse, which it is difficult to reach with insecticides, is answered as follows:

The piece of ground to be planted with gladioli may be cleared of the insects by the use of coarsely ground tobacco that can be purchased at about ten cents a pound. A heavy dressing of the tobacco can be spread on the ground and forked in immediately before planting, or it may be dug in between the plants later in the season.

Potash salt in the form of kainit has been found to be injurious or destructive to the insects; nitrate of soda produces similar effects. If, therefore, these substances should be used as fertilizers, they would at the same time destroy the pests, or at least lessen their number to the extent of rendering them harmless.

Cutworms have been especially abundant of late. They are the nocturnal larvæ of owl moths, and according to Powell (1915) "start their depredations early in May, or even in

late April, and continue, until about the middle of June." The best remedy seems to be a poisoned bait made in one of various ways. For small garden spots a little paris green is mixed with some bran, the mixture then being made into a thick mush by the addition of sufficient molasses and water. This is sprinkled along the rows of gladioli. Munroe (1915) states that when large fields need to be treated, it is best to spread the bran, perhaps about a hundred pounds, on a barn floor, and sprinkle it with sweetened molasses water (enough to make it crumbly); over this is then scattered a pound of paris green, and the whole is mixed together thoroughly.

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PUBLICATIONS RECEIVED.

The Thirteenth Annual Report of the Massachusetts State Forester, Frank W. Rane, has been received. It contains 124 pages of valuable information concerning State nursery work, reforestation, moth thinning and forestry problems generally and should be widely disseminated.

The U. S. Department of Agriculture has just sent out two bulletins of timely interest—No. 304 on Aphids Injurious to Orchard Fruits, Currant, Gooseberry and Grape, and No. 313 on The Small Vegetable Garden, with Suggestions for Utilizing Limited Areas. Both bulletins are freely illustrated.

Cornell Extension Bulletin, Cornell University, Ithaca, N. Y.—Gladiolus Studies II. Culture and Hybridization of the Gladiolus, by Alfred C. Hottes. This is a splendid publication which should be in the hands of every gladiolus grower. The "Bibliography" which forms an important place is not so complete as a feature of this character should be.

Addenda to Sander's List of Orchid Hybrids, 1915-1916. Some faint conception of the extent to which orchid hybridization is being carried on is conveyed in this list of two years' accomplishment which fills fifteen pages in small type and fifteen pages more of cross-reference. The original volume was published in 1915. The renowned orchid specialist of St. Albans, has placed the orchid lovers of the world under everlasting obligations by compiling this elaborate list, a service which surely was "a labor of love" and not for any possible emolument. The price is two shillings and sixpence.

William J. Matson, formerly of Newport, R. I., is now the superintendent of the W. G. Roelker Estate, East Greenwich, Ct.

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GLADIOLUS DISEASES*

Dr. L. M. Massey, of the Department of Plant Pathology, Cornell University, contributes the following brief résumé of the gladiolus diseases:

There are at least three important diseases of the gladiolus, namely, hard rot, dry rot, and scab. The first two

are characterized by necrotic lesions of various sizes in the corms, the diseased area blending more or less gradually into the healthy tissue. Scab lesions have a sharp line of demarcation, a distinct ridge being formed around the border of the depression. The surface of the depression has a somewhat metallic luster. In the older scab spots there is a cavity beneath the metallic film, appearing as if eaten out by some insect.

The lesions of hard rot and dry rot are usually small in the autumn, when the corms are dug. The diseases advance while the corms are in storage, until by spring many corms are reduced to dry mummies. Scab lesions do not enlarge after the corms are placed in storage.

Hard rot and dry rot are caused by fungous pathogenes whose life histories do not materially differ. The two fungi live over winter in the corm and are thus carried to the soil at planting time. The fungi do not grow from the old corm directly into the offspring, but either grow out into the soil, whence they attack the corms, or else work along the sheathing leaf bases. In the majority of cases a diseased corm may be expected as a result of planting one that is diseased.

The cause of the scab disease is unknown. Attempts to connect some fungus with the diseased areas on the corms have failed. The lesions may be due to the attacks of certain insects, such as wireworms or millipedes, but no experimental data are at hand to prove or disprove this suggested possibility.

Various soil and corm treatments have been used in an effort to control the hard rot and the dry rot of the gladiolus. Corms have been treated with formalin, corrosive sublimate, hot water, dry heat, and so forth, at strengths as high as the corms would permit without injury. None of these treatments have proved effective. Soil has been treated with lime, acid phosphate, sulfur, lime and sulfur, and iron sulfate, in strengths as high as the grower could afford to use them, without protecting the corms from the attacks of these fungi.

The selection of healthy corms, which are planted in soil in which no gladioli have ever been grown, is the one process that has unfailingly resulted in the production of healthy offspring. This requires a rigid selection. No corms should be planted which show any signs whatsoever of disease after the husks are removed. Care should be exercised during the growing season to see that no infested soil nor diseased plant parts are carried to the soil in which the healthy corms are growing.

* The Department of Plant Pathology at

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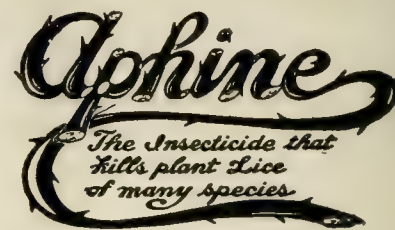
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Cornell University is investigating the disease of the gladiolus, and all samples of diseased plants or corms, as well as all correspondence concerning treatment for the prevention of disease, should be addressed to that department.

The Late W. C. Langbridge

WM. HENRY MAULE, INC.
GARDEN SEEDS.

Philadelphia, April 13, 1917.

I am deeply grieved to learn of the death of my old friend, Billy Langbridge. I have known him for more than thirty years, and there is no one in the seed trade who was more welcome in my office than he; and I have always looked forward with a great deal of pleasure to his calls, four or five times a year. He always was well posted on matters pertaining to the seed trade, and there was one good thing about him—he was always willing to impart knowledge to others. He certainly will be greatly missed all over this country among the seedsmen.

E. C. DUNGAN.

W. ATLEE BURPEE & Co.

Philadelphia, April 13, 1917.

Wm. C. Langbridge, who died in a New York hospital after a long illness, on Thursday, the 12th instant, had been a very close friend of mine for more than a quarter of a century, and not only did I see a great deal of him during the seed selling season, but we also traveled many miles together inspecting crops and visiting growers, therefore, I feel as if I knew him very well indeed.

Bill Langbridge, as we all loved to call him, I considered one of the best, if not the best salesman the seed trade has ever had, and I dare say this statement may be backed up fully by the number and size of the orders he annually turned in to Jerome B. Rice Seed Company. One could always depend on any statements he made, and as to supplies and proper values of seed he was invariably well posted, especially among the line of canners' peas.

Bill, during his travels around Philadelphia, almost invariably arranged to give me a week-end at my home, and in this way widened the number of his friends and acquaintances, and I know that his friends in my section of Bucks County are going to miss his genial calls and the delightful stories he would from time to time tell of his experiences on the road.

To me it seems that the loss of Bill Langbridge makes a void in the seed trade that will not be filled.

HOWARD M. EARL.

William C. Langbridge was a real man. He sized up to the highest standards in every walk of life. During the thirty years I have known and associated with him I have had constantly increasing reasons to admire his high qualities both in mind and heart. Staunch and true, honest and steadfast was the flag he always kept flowing to the breeze. He was a real seedsman, an honor and a credit to a profession, the highest exponent of which consider high aims and honorable dealing far above the mere commercial spirit of making money. From the day of his Shaker Hat,

thirty years ago, to the present he kept on constantly endearing himself to all of us. A tried, true-trusted and genial friend was William C. Langbridge. A man among men.

GEORGE C. WATSON.

MISSOURI COLLEGE OF AGRICULTURE STUDENTS TO WORK ON FARMS.

Owing to the shortage of food and the scarcity of labor, students in the Missouri College of Agriculture will be excused to work on farms. The faculty of the college took this action April 10. The faculty considers that actual labor in food production is as important and as much a patriotic duty as enlistment for military service. Only those students who have definite employment in view will be excused on the same basis as those who enlist in the army. The grade for work done in the college up to the time the student is excused will be the basis for awarding credit during his enlistment in food production.

Students will be placed on their honor that they will work on farms. In addition they will be required to submit a statement from employers that they are to be engaged in farm work. They must work at least until July 1 and submit a report from their employers to obtain credit for University work. The College of Agriculture recommended to the University faculty that students in other divisions be excused for farm work on the same basis as those excused for military service.

It is expected that practically every man in the College will take advantage of this opportunity to enlist in food production. Not more than 5 per cent of 500 students, who attended a mass meeting following the faculty's action, failed to stand when the body was asked if they desired to leave school and work on farms.

The women students enrolled in agriculture are considering what they can do to relieve the food shortage. A number of plans have been suggested and the women will meet to discuss them.

PROPER DEPTH TO PLANT BULBS.

Editor HORTICULTURE:

Dear Sir: A subscriber wishes to learn the proper depth to plant bulbs in border of shrubbery and rock gardens. A, claims they ought to be set 8 inches in order to get good, strong stems and large blooms. B, claims 4 inches is sufficient, especially as the land is late and cold. Kindly inform me through HORTICULTURE who is nearest to be right.

Yours very truly,

T. J. M.

Our correspondent failed to specify what particular class of bulbs he had reference to, so our answer must be generalized accordingly. The depth recommended for various bulbs by well-informed planters is as follows:

Crocuses, Snowdrops and Squills, 3 inches.

Tulips and Narcissi, 5 inches.

Hyacinths, 6 inches.

Lilies—tigrinum, superbum, tenuifolium, etc., 5 inches.

Lilies—speciosum, regale, candidum, 6 inches.

Lilies—auratum, Sargentæ, 8 inches.

Gladioli—6 to 8 inches.

Obituary

D. McIntyre

Daniel McIntyre of the McIntyre Floral Co., Nashville, Tenn., died on April 8. He was 43 years of age, born in Nashville, the son of a prosperous florist and had built up a successful business. He is survived by a widow and four children.

A. L. Glaser

A. L. Glaser, well known and highly respected, first as a gardener and since 1901 as a florist in Dubuque, Ia., died on April 5, aged 67 years. He was a native of Stein, Germany and came to the United States when in his twentieth year. He learned the florist business in the employ of Peter Lambert in Des Moines, Ia. He leaves a widow, five sons and two daughters.

Mrs. Frank H. Wilson.

Mrs. Gertrude C. Wilson, wife of Frank H. Wilson, instructor in floriculture at the Independent Agricultural School, Danvers, Mass., died at her home, 53 Park St., April 13th, aged 29 years. Mrs. Wilson was formerly a school teacher in Nahant. She is survived by her husband and one son.

W. D. Burt, of Dalton, N. Y., is to erect two buildings, each five stories, to accommodate his seed business. One week recently he sent thirty-five tons of seed by express.

Book of Garden Plans

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The purpose of this book is to aid those who are planning gardens and country places to visualize problems similar to their own and to see how a landscape architect would solve them.

There are twenty plans of model gardens and places in the book with directions and planting lists for each. The plans are wide in their variety ranging from boulder walls, arbors, poppy beds, and special borders to the different kinds of formal and informal gardens, rock, water, woodland, Japanese, annual, and wild flower. Photographs illustrate the basic idea of each plan.

The author says of the book in his introduction:

"A rough plan, even if very incomplete, will often be far more helpful to explain arrangement and grouping than will pages of printed instructions. But so as to help make these plans more definite, an actual piece of property was in mind in each case.

"Supposing, then, that the main features on our imaginary piece of ground have been decided upon, he can refer to the blue prints and see how, by the arrangement of our garden material, we can best add to the natural beauties of the ground and give them the touch of human hands."

A final chapter gives information on the practical side of gardening—the trees, plants, shrubs, vines, etc., for various conditions, cost estimating, time for planting, and other details. 20 blue print plans. 32 pages of illustrations. Net \$2.00.

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New Bills Before Congress.

The following bills have been introduced in the Sixty-Fifth Congress and are of interest to the seedsmen:

House Bill 2352 (Mr. Byrne of South Carolina). To regulate the movement of seeds in interstate commerce—an impossible bill.

H. R. 2780, appropriating \$5,000,000 for the immediate distribution of valuable seeds to farmers, through the agency of the United States Department of Agriculture.

S. 1727, appropriating \$250,000 for the distribution before June 1st, 1917, of seeds, shrubs, five-sixths of such distribution to be at the direction of senators, representatives, and delegates.

There have been several bills filed also of interest to nurserymen, as follows:

House Bill 1254, by Mr. Baker for the inspection of nursery stock sent through the United States mails. A very objectionable bill.

Senate Bill 1727, by McKellar, appropriating \$250,000 for the purchase and distribution, before June 1st, 1917, of seeds, trees, shrubs, etc., five-sixths of such trees and shrubs to be distributed in accordance with the requests of senators, representatives, and delegates, in Congress.

CONTROL OF MUSHROOM PESTS.

Methods of controlling mushroom pests, such as maggots, mites, spring-tails, sowbugs, slugs and crickets, are described in U. S. Department of Agriculture Farmers' Bulletin 789. Prevention of damage to cultivated mushrooms by insects and other creatures, according to the author of the bulletin, C. H. Popenoe, Bureau of Entomology, begins with the construction of a mushroom house, which should be as tight as possible, with outlets capable of being tightly closed. The windows and ventilators should be screened with fine wire gauze, as this forms an excellent prevention against the entrance of the small fungus gnats or flies and the mites which they carry.

Mushroom spawn should be pur-

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GLADIO-FLORA. 3½ ft.	1.65	15.00
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chased only from reliable dealers, as otherwise insects may be introduced with the spawn. As gnats may also be brought into the house through the agency of manure, special attention should be cut off given to fermenting the compost uniformly to insure a heat which is sufficient to destroy maggots and other pests that may be present in the manure. Where soil is infested the author advises sterilizing the soil of the benches by heating to a temperature of 150°F., while fumigation with carbon disulphid just previous to spawning is productive of good results in destroying maggots in the compost. Carbon disulphid vapor, however, is very inflammable and even explosive when mixed with air and brought into contact with fire or sparks, or when heated to a sufficiently high temperature, and great care should be used in handling it. Destruction of the adults or flies in mushroom houses can be effected by fumigation with nicotine preparations or pyrethrum.

Sowbugs may be detected at night by the aid of a lantern and killed, or hot water may be poured along the cracks in the boards and in other places where the bugs may be concealed by day.

The bulletin also contains suggestions for poisoned baits which are effective against sowbugs and crickets, and remedies for slugs.

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5000, \$27.50 per 10,000; Lath-house grown
Seed, \$2.00 per 1000, \$9.00 per 5000, \$17.50
per 10,000. Asparagus Sprengeri Seed, 75c.
per 1000, \$3.00 per 5000.

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inch pots, for delivery
in April.

\$10.00 per 100

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LEONARD'S SEEDS

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FOR SALE BY

LEONARD SEED COMPANY, Chicago, Ill.

LILIUM GIGANTEUM

NEW CROP NOW READY.

	Per 100	Per 1000
7 to 9 in. (300 bulbs to case)...	\$5.50	\$50.00
8 to 9 in. (250 bulbs to case)...	7.00	65.00
8 to 10 in. (225 bulbs to case)...	9.00	80.00
9 to 10 in. (200 bulbs to case)...	10.00	95.00

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BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT.

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SEEDS, BULBS AND IMPLEMENTS
WHOLESALE AND RETAIL.

Reselected Strains in Seeds.
Improved styles in Implements.
Catalogue upon application.

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BURNETT BROTHERS

Importers and Growers of

SEEDS, BULBS, PLANTS, &c.

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ROMAN J. IRWIN

108 West 28th St., NEW YORK

SPECIAL OFFER

LILIUM FORMOSUM

8/11, 225 to a case.....	\$80.00 per 1000
9/10, 200 to a case.....	85.00 per 1000
11/13, 100 to a case.....	15.00 per case
LILIUM FORMOSUM—Black Stem	
8/10, 200 to a case.....	\$80.00 per 1000
9/10, 180 to a case.....	90.00 per 1000
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Write for Complete Stock Circular.

SATISFACTION GUARANTEED.

ORDER NOW

New crop flower and vegetable seeds.
Begonia and Gladiolus Bulbs. 1917
Catalogue on application.

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47-54 North Market St., Boston, Mass.

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SEEDS, PLANTS AND BULBS

Horticultural Sundries

166 W. 23rd St., NEW YORK

GARDEN SEED

BET, CARROT, PARSNIP, RADISH and
GARDEN PEA SEED in variety; also other
items of the short crop of this past season,
as well as a full line of Garden Seeds, will
be quoted you upon application to

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82 Dey St., NEW YORK and ORANGE, CONN

ALEX. McCONNELL

611 FIFTH AVENUE
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Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

*Cost of Cabling Foreign Deliveries
Must be prepaid*

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.

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The Florist

"The Telegraph Florist"

Member of Florists' Telegraph Delivery

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FOR

KANSAS CITY

Transfer Your Orders to

SAMUEL MURRAY

1017 Grand Avenue

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Orders for NEW YORK.
Write or Phone to

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Adjoining Plaza Hotel

Best Florists in the States as
References.

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Members of the Florists'
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Established 1874

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N. E. Cor. 44 St. & Madison Avenue, N. Y. City

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Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address. Dardsflor.

DAVID CLARKE'S SONS

Deliver orders from any part of the country to

New York City

Write or Telegraph

2139-2141 Broadway, - New York
Telephone 1888-1888 Columbus

Of Interest to Retail Florists

NEW FLOWER STORES.

Galesburg, Ill.—A. Buesch.

Monticelo, Ill.—J. R. Dills.

Newburgh, N. Y.—Schaefer Estate.

Spokane, Wash.—E. S. Eugene, Wall street.

Belvidere, Ill.—J. P. Herzog, Hicks block.

Harrisburg, Pa.—Century Flower Shop, 311 Walnut street.

Kansas City, Mo.—Rudolph Holzclaw, 5th and Quindaro streets.

Elyria, O.—Hecock Floral Co., East Bridge street, succeeding L. J. Gunton.

San Francisco, Cal.—MacRorie & McLaren, branch store at Hotel Whitcomb.

COVER ILLUSTRATION

Our cover picture this week shows a very pretty example of simple and tasteful floral arrangement; for which Max Schling, of New York, has kindly loaned the photograph. The bouquet was for a golden wedding and composed of Barberton daisies (Gerbera Jamesoni) acacia, white lilac, mignonette and cattleyas. We should like to publish more of such illustrations if the florist trade would only get into the habit of having photographic records made of their nice work. Uncouth attempts to represent clocks, guns, chairs, flags, hose wagons and the like are sent to us occasionally but we haven't the heart to impose such travesties on the class of florists who read HORTICULTURE. It is but fair to the florist trade, however, to say that in many instances it is the customer and not the florist who is responsible for the queer contraptions that sometimes figure as "floral designs."

Portland, Me.—Mabel I. Hayes, the surviving member of the E. J. Harmon Co., is the defendant in a suit brought by J. Frank Harrington, who bought out the florist business July 1, 1913. It is the claim of the plaintiff that because of misrepresentation he was induced to pay \$10,000 for the business, he having been told by the late E. J. Harmon and his partner, Mabel I. Hayes, that the business was at the time of its purchase by him well established and capable of rendering an annual net profit of between \$15,000 and \$18,000.

Write or 'Phone

F. H. WEBER'S

Modern Flower Shop for Artistic and Special Work

N. E. Corner of Taylor and Olive

ST. LOUIS, MO.

M. F. T. D.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.



GUIDE BROS. CO.
WASHINGTON, D. C.

Member Florists Telegraph Delivery

IN THE

National Capital

At your service to deliver Flowers
or Designs on Order by Tele-
graph or otherwise. Prompt
Reliable Service.

GEORGE H. COOKE

Connecticut Ave. and L St.
WASHINGTON, D. O.

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

Members Florists' Telegraph Delivery

G. E. M. STUMPP

761 Fifth Ave.

NEW YORK CITY

Member Florists' Telegraph Delivery Asso.

YOUNG & NUGENT

42 West 28 Street

New York

Members Florists' Telegraph Delivery

A. T. BUNYARD

NEW YORK

413 Madison Avenue at 48th Street.
Also Newport, R. I.

We Guarantee Satisfaction

MEMBER F. T. D. A.

CHICAGO Send Your Orders to WILLIAM J. SMYTH

Member Florists' Telegraph
Delivery Association

Michigan Ave. at 31st Street

Prompt Auto Delivery
Service

THOS. F. GALVIN
INC.
NEW YORK 561 Fifth Ave.
Vanderbilt Hotel
BOSTON 1 Park Street
799 Boylston Street
Deliveries to Steamers and all Eastern Ports

CLEVELAND
A. GRAHAM & SON
5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

Orders Filled Day or Night for
CLEVELAND
and State of Ohio
Complete Stock. Regular discount to Trade.
KNOBLE BROS.
1896 W. 25th St., Cleveland, O.
Members Florists' Telegraph Delivery Ass'n.

THE SMITH & FETTERS CO.
735 Euclid Avenue
CLEVELAND, OHIO
Flowers of Every Kind in Season

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1552.
1415 Farnum St.,
OMAHA, NEB.

Rochester, N. Y.
J. B. KELLER SONS,
FLORISTS
25 Clinton Avenue, N.
Rochester Phone 306. Long Dist. Bell Phone 2726
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S. A. ANDERSON
440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
Stock and prompt deliveries in BUFFALO,
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK
Members of Florists' Telegraph Delivery.

HIGH GRADE PLANTS
For Retail Stores a Specialty
ASK FOR LIST
THOMAS ROLAND, Nahant, Mass.
WORCESTER, MASS.
Randall's Flower Shop
HARRY L. RANDALL, Proprietor.
Mention Florists' Telegraph Association

Flowers by Telegraph

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

Albany, N. Y.—H. G. Eyres, 106 State St.
Albany, N. Y.—The Rosery, 23 Steuben St.
Boston—Thos. F. Galvin, 1 Park St.
Boston—Penn the Florist, 124 Tremont St.
Boston—Zinn The Florist, 4 Park St.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Cleveland, O.—Adam Graham & Sons, 5523 Euclid Ave.
Cleveland, O.—Knoble Bros., 1836 W. 25th St.
Cleveland, O.—The Smith & Fetters Co., 735 Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Ave.
Houston, Tex.—Kerr, The Florist.
Kansas City, Mo.—Samuel Murray, 1017 Grand Ave.
Los Angeles, Calif.—Howard & Smith, 853 So. Olive St.
New London, Conn.—Reuter's.
New York—J. H. Small & Sons, 505 Madison Ave., at 52d St.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 611 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—A. T. Bunyard, 413 Madison Ave., at 48th St.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Max Schling, 22 W. 59th St.
New York—G. E. M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.
St. Louis, Mo.—F. H. Weber's, N. E. corner of Taylor and Olive Sts.
St. Paul, Minn.—Holm & Olson, Inc.
Tarrytown-on-Hudson, N. Y.—F. R. Pier-son Co.
Toronto, Can.—J. H. Dunlop, 8-10 West Adelaide St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—George H. Cooke, Connecticut Ave. and L St.
Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop, 22 Pearl St.

Send Telegraph, Telephone or Mail orders
for florist service in this vicinity to

Howard & Smith
853 SO. OLIVE ST.
Los Angeles, Calif.

Every Order sure to receive
prompt and careful attention.

ZINN The Florist
For Quality and Promptness
4 PARK ST. - - BOSTON

REUTER'S Members Florists
Telegraph
Delivery

STORES IN

New London and Norwich, Conn.
and Westerly, R. I.

We cover the territory between
New Haven and Providence

ST. LOUIS, MO.

FRED C. WEBER
4326-28 Olive St.

Member Florists' Telegraph Delivery Association
NOTICE INITIALS. We have one store only

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

The Far-Famed Flowers of
TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP
8-10 West Adelaide St. - TORONTO, ONT.
ALBANY, N. Y.

EYRES
Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER
106 STATE STREET, ALBANY, N. Y.

"THE HOME OF FLOWERS"

The largest cut flower store in America.
Orders for the TWIN CITIES and for all
Northwestern points given prompt at-
tention

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

The Park Floral Co.
J. A. VALENTINE, Pres.

Members Florists' Telegraph Delivery.

DENVER, COLORADO



KERR ORDERS FOR TEXAS
HOUSTON, TEXAS
The Florist Member F. T. D. Association

NEWS ITEMS FROM EVERYWHERE

BOSTON.

William Sim picked 200,000 single violets of first quality for Easter and all were sold at a big price.

Two of the bright young men, sons of Boston florists, who have enlisted for war service are Henry M. Robinson, Jr., who has joined the Coast Reserves, and Phil. Roland, son of Thomas Roland, who leaves his studies at Dartmouth to go into the Ambulance Corps in France.

Frank J. Walsh, a Malden florist, found a section of \$50 last Sunday. He picked up two pieces of two \$20 bills and a piece of a \$10 note in Maple street, Malden, near his home. Small boys made a careful search of the vicinity, hoping to find the rest of the bills. The parts of the \$50 which Mr. Walsh holds are no good. The bill numbers are missing and boys will continue to look for them.

The Committee on Public Safety, in connection with the appointment of April 19 as "patriotic" planting day, is doing some very effective publicity work in the campaign to increase the annual cultivation of food products in Massachusetts. Detailed information as to what is being done and what is planned may be had by writing to the Committee on Food Production and Conservation, State House, Boston.

J. G. Jack will conduct a field class at the Arnold Arboretum on Saturdays during the spring and early summer, to assist those who wish to gain a more intimate knowledge of the native and foreign trees and shrubs which grow in New England. The instruction will be given in informal outdoor talks and examinations of the plants. Different botanical groups will be examined at each meeting, although any trees or shrubs found may form subjects for study. No technical knowledge or special preparation is required in order to join the class as the instruction is intended to be simple in character, affording opportunities for questions and answers relating to the specimens under observation. The class will open next Saturday and close June 23. Applications or further inquiries may be addressed to Mr. Jack, East Walpole, Mass., or at the Arboretum.

WASHINGTON, D. C.

The Department of Agriculture is keeping right after cucurbit and other pond lily diseases, and Frederick V. Rand, assistant pathologist in the Bureau of Plant Industry, has gone to New York to continue his investigations.

A bill has been proposed that Colquitt, Ga., will have an experimental agricultural plant, shrub, fruit and ornamental tree, berry and vegetable station and farm, where the Department of Agriculture will be enabled to demonstrate the character of products

best adapted to the soil and climate of that section.

The Kiwanis Club is the name of the latest organization of the Rotary type to be formed in Washington. It is the plan of the organizers to have two representatives of each line of trade, and George C. Shaffer is one of the florists selected. This is a so-called "golden rule" organization, with the name Kiwanis standing for price, service and quality.

J. H. McFarland last week delivered a lecture at the Public Library under the auspices of the Federation of Citizens' Associations. The Florists' Club was invited also to be present and those who availed themselves of the opportunity declared the lecture to be a most interesting one. He spoke approvingly of the production of "American roses for America," and told of what is being done at the rose test gardens at Arlington Farms.

ST. LOUIS.

J. J. Beneke is still confined to his room with rheumatism.

Famous Barr Dry Goods Co. and the Grand Leader will open up a regular floral department in the near future.

The Rosery flower shop has been opened up by John B. Barnard and Olga M. Maul. These gentlemen are well experienced and should make good.

The Ladies' Home Circle met at the home of J. J. Beneke, April 11th. Mrs. Koenig, Mrs. F. C. Weber, Mrs. Carl Beyer and Mrs. Theodore Miller were present.

The St. Louis Florist Club met at the greenhouses of W. A. Rowe at Kirkwood, Mo. There were 35 members present, including all officers, who motored out into the country. Resolutions were passed favoring publicity for Mothers' Day and for the National Flower Show, 1918. Secretary J. Windler is kept busy.

PHILADELPHIA.

Douglas and John Howard Earl, sons of Howard M., of Burpee's, have enlisted in the 6th regiment, N. G. P. If the spirit spreads as it is now doing we fear the seed trade will be very short-handed pretty soon.

The latest life member to join the American Rose Society is the Hon. John Wanamaker who is at present sojourning in Florida. President Penock seemed to be rather proud this morning in announcing this distinguished new recruit to the rapidly swelling list of membership. We think the feeling is justified and that the vaulting ambition to have seven thousand members like the National Rose Society of England may some day come true—even in crude and undeveloped America.

CHICAGO.

Clarence Enders, son of Mr. and Mrs. John Enders, has enlisted for six years in Co. L, 1st Cavalry, and leaves Friday for Springfield, Ill.

Walter Horn of Poehlmann Bros. store force, left today for his home in Carrollton, Iowa, where he will join his regiment and leave for the war.

The seed stores are getting a lot of free advertising this spring. Every paper in the city has its garden column and some of the schools are putting practical gardening on the school grounds as a part of the regular work.

Poehlmann Bros. Co. will open their annex next Saturday. The room is 40 x 160 ft. and is fitted up with new furnishings, making a splendid place for a sales and sample room for supplies. The fourth floor will be used hereafter for storage and shipping room.

Fred Lautenschlager, chairman of the Chicago Florists' Club Publicity Committee, is industriously sending circulars far and wide in exploitation of the co-operative advertising plan put into action for Mothers' Day by means of stamps and window posters. He states therein that the Publicity Committee has completed arrangements with one of America's foremost advertising agencies to prepare copy for a full-page advertisement which we plan to use in one of the leading magazines of this country. This magazine has a widespread circulation and will carry our message broadcast across the land. The copy of the advertisement will contain a suitable design announcing Mothers' Day, this design incorporating the theme of Mothers and Flowers; the text to exploit the theme in its broader sense. A cut of the stamp appeared in a recent issue of HORTICULTURE. One window poster, price list and order blank will be mailed without cost to anyone applying for same. Address F. Lautenschlager, 440 West Erie St., Chicago, Ill. Distribution of stamps and posters will commence immediately.

PITTSBURGH.

C. C. Phillips, of the McCallum Floral Company, left on Wednesday for a several days' trip in the interest of the firm.

Mr. and Mrs. De Forest W. Ludwig, who have been spending the winter in California (the former in the employ of the A. L. Randall Co., of Chicago), are now in Seattle, en route home, and will spend next week in Portland, Oregon.

The A. W. Smith Company has taken large floor space near the entrance of Motor Square Garden for the June Flower Show of the Garden Club of Allegheny County. Their intention is to feature an exhibition of combination landscape and interior decoration.

There is now a movement afoot to utilize those sections of the city parks

AFTER EASTER

Weddings == Mothers' Day == Memorial Day

Fill up your Show Cases and Shelves with another nice stock of Bayersdorfer Baskets and other Seasonable Supplies. We have splendid novelties and all the standard goods in endless variety, Home Manufacture and Imported.

SEND FOR CATALOGUE AND PRICES

and see how much you can do with a little money when you go straight to headquarters—*The Florists' Supply House of America.*

H. BAYERSDORFER & CO.

Manufacturers and
Importers

1129 Arch Street, PHILADELPHIA, PA.

Write for
Catalogue

which are sown in grass and have not cost too much in development, as well as the public conservatories, for the raising of cabbage plants and other vegetables for free distribution during the national "emergency."

With patriotism the keynote, pupils of the schools of McKeesport and surrounding townships will cultivate forty-eight plots for gardening purposes under expert supervision. The land, consisting of about twenty-five acres, has been donated for the purpose by the Pittsburgh Speedway Association, and will be known as Speedway Gardens.

HOW TO SAVE YOUR SECURITY ON A PROMISSORY NOTE.

Something now which may help some reader to save the security on a promissory note which he may have accepted in the course of business:

Williamsport, Pa.

You are aware that we are in the wholesale business. Last summer one of our largest customers got behind in his account, and upon our pressing him for payment, he stated that he was reorganizing his business, and in order to clean up our account he gave us a note for our entire account, having same endorsed by his brother, who is a man of means. We have just received word that the maker of this note, our customer, has failed, and that the estate is not likely to pay 10 cents on the dollar. The note will be due in about a month, and of course the signer will not pay it and we will have to look to the brother who endorsed it. We understand that when this note comes due and is not paid, the endorser must be notified in a certain way, or you cannot hold him. As there is considerable money at stake, we are desirous of not making any mistake, and we therefore ask you to tell us exactly how to proceed so that we shall not lose the endorser of this note.

W. M. R. & Co.

An amazing amount of security is lost in promissory note transactions because the payee, or the holder, doesn't pay the same attention to holding the endorser that the above correspondent is paying. The law is quite strict about what is due the endorser on a promissory note, for often the endorser goes on merely to oblige a friend, and while the law doesn't absolve him from liability, on that ac-

count, it does require the person who seeks to hold him liable, to be extremely thorough in the doing of certain things.

The rule is that when the person primarily liable on a note, that is, the maker, doesn't pay it, the endorser must be at once notified. This so he can have all possible chance to save himself from loss by getting at the defaulting maker at the earliest moment.

Furthermore, the endorser has a right to insist that the note should have been presented to the maker for payment on the very day it is due. If it isn't so presented, the endorser goes free, because one of the legal unwritten conditions under which he is to be liable is that the obligation should first be put up to the person primarily responsible. And the second condition, as I have explained, is that immediate notice that the maker has fallen down, if he has, should at once be given the endorser.

There are three main exceptions to the rule requiring a note to be presented to the maker on the day it is due. First, you don't have to present it to a maker whom you can't reach, as for instance, when he is absent. Second, you don't have to present it to a maker who signed it without anything for himself, and merely as an accommodation to the endorser. In that case the endorser is regarded as the man primarily liable. Third, you don't have to present the note to the maker when the endorser has told you in advance that you needn't. He does that when he puts the words "waiving demand and notice" on the note under his endorsement. When he has used those words you don't even have to notify him that the maker hasn't paid.

The laws of all states require notice to an endorser, where there is no exception in the case which makes it unnecessary. How and when must that notice be given? We will suppose that a note has fallen due. It is presented to the maker either by the holder personally, or by the bank which he has chosen to collect it, and isn't paid. If the endorser is in the

same town, he should be notified at once of the maker's default. He can be notified verbally, or by letter, but the written way is the better. No special form is necessary—anything that tells him of the maker's default is sufficient, but it should also say that he, the endorser, will be looked to for payment.

Of course where the note is handled for collection by a bank, the bank notary who protests it for non-payment is supposed to notify the endorser, which he does by regular protest notice.

If the endorser is not in the same town, a longer time is given for the notice. The time allowed is always a reasonable time under the circumstances of the case. The uniform negotiable instruments law, which has been adopted in a large number of states, gives the time during which an endorser must be notified in different cases, but the foundation idea throughout is a reasonable time.

Touching the manner of giving notice, an interesting case was decided a few days ago by the Pennsylvania Supreme Court. This would be the law in any state having the uniform negotiable instruments law, of which, as I stated, there are a large number.

In this case an endorser on a promissory note was endeavoring to escape liability, on the ground that he had not received notice that the maker hadn't paid. The holder proved that he had mailed a notice to the endorser, correctly addressed. The endorser, swore he never got it, but the court held that that made no difference.

The mailing of notice is enough; the sender of the notice is deemed to have given due notice notwithstanding whether or not it was received. The negotiable instruments law has changed the former law on this subject by providing that where notice of dishonor is duly addressed and deposited in the post office the sender is deemed to have given due notice, notwithstanding any miscarriage in the mails; due notice of dishonor is deemed to have been given when it is shown that the notice is properly addressed and deposited in the post office, whether it has been received or not.

(Copyright, January, 1917,
by Elton J. Buckley.)

BEAUTIES

as we can furnish you give satisfaction
and at our price is profitable stock
for you to handle.

THE LEO NIESSEN CO.

Wholesale Florists
1201-05 Race Street, PHILADELPHIA, PA.

To Cut Flower Growers and Retail Florists

IF YOU

want to find a market for your
product

want a regular or special supply
of the product of the best
growers

Consult the Advertisements on
these Wholesale Flower Pages

The Advertisers Represented Here are the Leading
Concerns in the Wholesale Flower Trade

EDWARD REID WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.
CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

Philadelphia Wholesale Florist Exchange

ROSES OUR SPECIALTY
A trial order will convince you
1615 Ranstead St., PHILADELPHIA, PA.

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$2.00. 50,000...\$8.75. Sample free.
For sale by dealers.

E. G. HILL CO.

Wholesale Florists
RICHMOND, IND.

Please mention Horticulture when writing.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

264 RANDOLPH ST., DETROIT, MICH.

The House for Quality and Service

ZECH & MANN

We are Wholesale Florists Doing
a Strictly Wholesale Business

30 East Randolph Street, CHICAGO



POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut Flower Market

Daily consignments from leading growers Full line of Florists' Supplies Write for quotations before ordering elsewhere

262B DEVONSHIRE ST., BOSTON, MASS.
Telephone, Main 6267-6268

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON April 18		ST. LOUIS April 16		PHILA. April 16	
Roses						
Am. Beauty, Special.....	20.00	to 25.00	30.00	to 40.00	40.00	to 50.00
" " Fancy and Extra.....	15.00	to 20.00	20.00	to 30.00	20.00	to 35.00
" " No. 1 and culls.....	4.00	to 10.00	3.00	to 6.00	4.00	to 15.00
Russell, Euler, Mock.....	2.00	to 10.00	.....	.....	4.00	to 25.00
Hadley.....	2.00	to 12.00	.....	.....	4.00	to 15.00
Arenberg, Hoosier Beauty.....	2.00	to 6.00	.....	.....	3.00	to 10.00
Ward.....	1.00	to 6.00	3.00	to 6.00	4.00	to 8.00
Killarney, Radiance, Taft.....	1.00	to 6.00	3.00	to 6.00	3.00	to 10.00
Ophelia, Sunburst, Hillingdon.....	2.00	to 8.00	3.00	to 8.00	4.00	to 10.00
Key.....	1.00	to 6.00	.....	.....	4.00	to 12.00
Carnations	1.00	to 2.00	1.50	to 3.00	1.00	to 3.00
Cattleyas.....	30.00	to 75.00	.....	to 50.00	50.00	to 75.00
Dendrobium formosum.....	.....	to 50.00	.....	.....	.....	.....
Lilies, Longiflorum.....	4.00	to 8.00	8.00	to 12.00	6.00	to 8.00
Lilies, Speciosum.....	4.00	to 6.00	.....	.....	.....	.....
Callas.....	6.00	to 8.00	8.00	to 10.00	8.00	to 10.00
Lily of the Valley.....	6.00	to 8.00	5.00	to 6.00	4.00	to 6.00
Snapdragon.....	2.00	to 6.00	.....	.....	3.00	to 12.00
Daffodils.....	.50	to 1.00	1.00	to 3.00	1.00	to 3.00
Narcissi, Paper White.....	.....	.....	.....	.....	.....	.....
Roman Hyacinths.....	.....	.....	.....	.....	.....	.....
Freesia.....	.....	.....	.....	.....	.....	.....
Tulips.....	1.00	to 2.00	2.00	to 5.00	1.00	to 3.00
Calendulas.....	1.00	to 2.00	.....	.....	2.00	to 3.00
Sweet Peas.....	.25	to .75	.20	to .75	.40	to 1.50
Violets.....	.30	to .60	.....	.....	.50	to .75
Marguerites.....	1.00	to 2.00	.....	.....	.50	to 2.00
Gardenias.....	2.00	to 35.00	.....	.....	4.00	to 20.00
Adiantum.....	1.00	to 1.50	1.00	to 1.50	1.00	to 1.50
Smilax.....	12.00	to 20.00	12.00	to 15.00	15.00	to 25.00
Asparagus Plumosus, & Spreng. (100 Bchs.).....	25.00	to 35.00	25.00	to 35.00	25.00	to 50.00

WILLIAM F. KASTING Co.

Wholesale Florists

568 570 WASHINGTON STREET - BUFFALO, N. Y.

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER of

CUT FLOWERS

RUSSELLS

With a cut-back crop, which is now coming in, we are receiving some of the most wonderful quality we have ever handled—in quantity—all lengths.

Special, \$20.00 First, \$10.00
Extra, 15.00 Second, 8.00

A few extra choice special Russells at \$25

S. S. PENNOCK-MEEHAN CO.

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117 W. 28th St.

PHILADELPHIA
1608-1620 Ludlow St.

BALTIMORE
Franklin & St. Paul Sts.

WASHINGTON
1216 H St., N. W.



Flower Market Reports

BOSTON The flower market has been in deplorable shape for the past few days. At present writing, the day before Patriots' Day, a little more activity is noticed but the tables in the market are burdened with flowers, many of them showing unmistakable signs of tiredness. Roses have been hard hit—worse than anything else it would appear. Carnations average very good as to quality but they are not wanted. Bulb flowers still linger in large quantities. Violets are nearing their end but sweet peas are heavily accumulated on all sides and many of them are of excellent quality. Lilies sell very poorly and they are inferior as a rule.

The Chicago wholesale market is still a quiet place. Since the big business of Easter week, trade has been rather slow. Thursday and Friday there was something like the stir of the early part of the month but sales dragged again at the week end. This week opens in a discouraging manner. Roses are a drug on the market and some of the wholesalers report that the most unsatisfactory flower from a financial standpoint, just now, is the rose. American Beauties, so scarce all the winter, are now here in quantity but no one seems to want them. Orchids are very scarce with the prospect of remaining so for some time to come. Carnation sales are still lessened more or less by the vast quantities of bulbous stock which has flooded the market for months and probably will last some time longer. Sweet peas sell fairly well.

The demand has been fairly steady since Easter but has not kept pace with the supply of stock. The latter has become so large that the market is overstocked in every seasonable line. Roses are among the worst offenders. Their supply is greatly in excess of actual needs. Carnations are overly plentiful. Easter

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

	CINCINNATI April 16	CHICAGO April 9	BUFFALO April 16	PITTSBURG April 16
Roses				
Am. Beauty, Special.....	40.00 to 50.00	35.00 to 40.00	25.00 to 35.00	30.00 to 40.00
" " Fancy and Extra.....	25.00 to 35.00	25.00 to 35.00	20.00 to 25.00	20.00 to 25.00
" " No. 1 and culls.....	5.00 to 15.00	6.00 to 20.00	10.00 to 15.00	10.00 to 15.00
Russell, Euler, Mock.....	4.00 to 12.50	4.00 to 20.00	4.00 to 15.00	6.00 to 15.00
Hadley.....	4.00 to 10.00	..... to	6.00 to 10.00	..... to
Arenberg, Hoosier Beauty.....	4.00 to 10.00	..... to	6.00 to 10.00	4.00 to 12.00
Ward.....	4.00 to 10.00	4.00 to 10.00	3.00 to 6.00	4.00 to 10.00
Killarney, Radiance, Taft.....	3.00 to 10.00	3.00 to 8.00	3.00 to 10.00	4.00 to 10.00
Ophelia, Sunburst, Hillingdon.....	4.00 to 10.00	4.00 to 10.00	3.00 to 10.00	4.00 to 12.00
Key.....	..... to .....	..... to	5.00 to 12.00	..... to
Carnations	2.00 to 4.00	1.50 to 3.00	2.00 to 3.00	2.00 to 4.00
Cattleyas.....	..... to 75.00	40.00 to 50.00	40.00 to 50.00	60.00 to 75.00
Dendrobium formosum.....	..... to .....	..... to .....	..... to	20.00 to 30.00
Lilies, Longiflorum	8.00 to 12.50	8.00 to 12.00	8.00 to 10.00	6.00 to 10.00
Lilies, Speciosum.....	..... to .....	..... to	4.00 to 6.00	..... to
Callas	8.00 to 10.00	8.00 to 10.00	8.00 to 12.00	..... to
Lily of the Valley.....	..... to 6.00	5.00 to 6.00	6.00 to 7.00	4.00 to 6.00
Snappdragon	6.00 to 12.50	6.00 to 10.00	5.00 to 8.00	2.00 to 6.00
Daffodils	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	..... to
Narcissi, Paper White.....	..... to .....	..... to	2.00 to 3.00	..... to
Roman Hyacinths.....	..... to .....	..... to	2.00 to 3.00	..... to
Freesia.....	..... to	2.00 to 3.00	2.00 to 3.00	..... to
Tulips	2.00 to 4.00	2.00 to 3.00	2.00 to 3.00	..... to
Calendulas.....	..... to	2.00 to 3.00	2.00 to 4.00	2.00 to 4.00
Sweet Peas.....	.50 to 1.00	.50 to 1.50	.60 to 1.50	.50 to 2.00
Violets.....	..... to .....	..... to .....	.30 to .50	.25 to .75
Marguerites.....	..... to 1.00	.50 to 1.00	1.00 to 2.00	2.00 to 3.00
Gardenias.....	..... to	15.00 to 25.00	15.00 to 25.00	..... to
Adiantum.....	..... to 1.00	.75 to 1.00	1.00 to 1.25	1.00 to 1.25
Smilax	12.00 to 15.00	12.00 to 18.00	15.00 to 20.00	15.00 to 20.00
Asparagus Plu. & Spren. (100 Bhs.)	35.00 to 50.00	25.00 to 50.00	20.00 to 30.00	20.00 to 50.00

lilies are in a heavy supply and have a slow market even at the prevailing low prices. Sweet peas are plentiful. A supply of lily of the valley is available. Some excellent Darwin tulips are coming into the wholesale houses.

NEW YORK Conditions are very quiet with heavy shipments coming in and only a spasmodic demand. Roses are plentiful at reduced prices and the same is true of carnations. Not much change for the better is apparent in the bulb flower trade. Sweet peas are abundant and in all kinds of qualities—good, bad and indifferent—and prices

range accordingly. Smilax is scarce. Lily of the valley is also a scarce item. Cattleyas still hold firm, as do gardenias if good. Antirrhinums are poor sellers as has been the case most of the season. Spanish iris are coming in plentifully and are very handsome but they do not move as well as they should. Lilies are a slow proposition.

PHILADELPHIA Last week there was a big increase in the supply of flowers consequent on the longer days and the bright weather. On top of that condi-

(Continued on page 531)



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For the Retailer or for the Grower
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Consignments Solicited
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Ferns, Mosses, Wild Smilax, Galax,
Leucothoe, Palmetto, Cycas, both fresh
cut and prepared,
Laurel, Hemlock, all Decorative Evergreens.
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Brooklyn's Foremost and Best

WHOLESALE COMMISSION HOUSE

A First Class Market for all CUT FLOWERS

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FINE ROSES, FANCY CARNATIONS

A Full Line of ALL CUT FLOWERS.
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Prices Right. Consignments Solicited. Telephone Connection

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57 WEST 26th STREET

A GOLD MEDAL is not expected by us for doing our duty by our consignors and customers

We have 22 years' experience behind us

FANCY GRADE ORCHIDS, SEPTEMBER MORN, AMERICAN BEAUTY, PRIMA
DONNA AND ALL OTHER ROSES, LILIES, CARNATIONS, VIOLETS,
ASPARAGUS AND SMILAX and all other Seasonable Flowers.

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Phones: Farragut 558, 2036 and 2037

101 West 28th Street, NEW YORK

NEW YORK QUOTATIONS PER 100. To Dealers Only**ROSES AND CARNATIONS**

	Last Half of Week ending April 14 1917		First Half of Week beginning April 16 1917	
American Beauty, Special	25.00	to 30.00	30.00	to 25.00
" " Fancy and Extra	15.00	to 20.00	15.00	to 20.00
" " No. 1 and culls	4.00	to 8.00	4.00	to 8.00
Russell, Euler, Mock	3.00	to 30.00	3.00	to 10.00
Hadley	5.00	to 50.00	2.00	to 50.00
Arenberg, Hoosier Beauty	2.00	to 10.00	2.00	to 10.00
Ward	1.00	to 6.00	2.00	to 6.00
Killarney, Radiance, Taft	1.00	to 6.00	2.00	to 6.00
Ophelia, Sunburst, Hillingdon	2.00	to 10.00	2.00	to 10.00
Key	2.00	to 10.00	2.00	to 12.00
Carnations	1.00	to 2.00	1.00	to 2.00

WALTER F. SHERIDAN

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Consignments Solicited

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Wholesale Commission Florists

Orchids, Gardenias and Many Unusual
Flowers of Quality

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WHOLESALE FLORISTS

55-57 West 26th Street

Telephones, 13—3510 Madison Square

MAURICE L. GLASS, Treasurer

Consignments Solicited

Flower Market Reports

(Continued from page 531)

tion came the usual after-Easter slow-up in demand. Consequently prices receded and the buyer had it all his own way. Old "Iron Face" had it all his own way and wore a beaming smile. The only scarce item seemed to be lily of the valley. Everything else was super-abundant.

The market is proving a little quiet, following the heavy Easter season, and were it not for the plentiful funeral demands, conditions would not fall short of mid-summer dullness. Prices are not as good and, to quote one of the leading wholesale men, "It is a good deal of a buyers' market, as they are virtually naming their own prices." There is plenty of good material coming in day by day for which there is little demand. A number of spring weddings are scheduled for the coming week which will call into requisition the artistic skill of the fashionable florists, but from the wholesale viewpoint, "weddings don't count for much."

For the past week **ST. LOUIS** trade has been fairly good. All stock has been more plentiful. Lilies, roses, carnations, outdoor jonquils and other narcissi have been very plentiful. Greens are in demand. Ferns are quoted at 30 to 35c. per 100.

Market conditions **WASHINGTON** during the week following Easter were very good and Easter week itself is estimated to have exceeded the business of last year by from 10 to 25 per cent. Cold weather has continued and prices have remained good, with a dropping off in the heavy supply of all flowers. Roses and carnations are moving well and there has been a heavier demand for lily of the valley and orchids because of the weddings which immediately followed Easter. Southern daffodils are already off the market, a large part of the crop having been killed by the severe cold weather. There has been quite a cessation in the demand for bulb stock.

VISITORS' REGISTER.

Philadelphia—John Walker, Youngstown, O.

Boston—Miss Margaret Vesey, Fort Wayne, Ind.; Robert Shock, Phila., Pa.

Cincinnati—Miss Federle, Hamilton, O.; Fred Rupp, Lawrenceberg, Ind.; Mr. and Mrs. G. A. Beckman, Hamilton, O.

Pittsburgh: James J. Goudy, repr. Dreer of Phila., Pa.; Milton Alexander, New York City; John Williamson, Boston, Mass.; George Husmann, A. L. Randall, Chicago, Ill.; I. M. Bayersdorfer, Phila., Pa.

Washington, D. C. — Robert Kift, Phila.; C. B. Knickman, New York, N. Y.; G. Hylkema, Hillegom, Holland; Charles Niemann, New York, N. Y.; G. Krouwel, Sassenheim, Holland; Charles E. Meehan, Phila.

NEW CORPORATION.

Chicago, Ill.—Rapid Wrapper Co., to manufacture and deal in floral and greenhouse supplies, capital stock, \$25,000.

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262 DEVONSHIRE STREET, BOSTON, MASS.

American Beauties, Orchids, Valley, Carnations. All the novelties in the Cut Flower Market furnished on short notice. Prices quoted on application. No retail orders accepted. Flowers shipped out of Boston on early trains.

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HERMAN WEISS WHOLESALE FLORIST

Can handle shipments of growers' product satisfactorily. Would like to hear from Growers of Snapdragons and Sweet Peas, etc., for the New York trade.

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Tel. Farragut 3066

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending April 14 1917	First Half of Week beginning April 16 1917
Cattleyas.....	35.00 to 60.00	35.00 to 50.00
Dendrobium formosum.....	..... to 50.00	..... to 50.00
Lilies, Longiflorum.....	6.00 to 8.00	4.00 to 6.00
Lilies, Speciosum.....	3.00 to 6.00	2.00 to 6.00
Callas.....	6.00 to 8.00	6.00 to 8.00
Lily of the Valley.....	4.00 to 8.00	4.00 to 8.00
Snapdragons.....	1.00 to 5.00	1.00 to 5.00
Daffodils.....	1.00 to 1.50	.50 to 1.50
Narcissi, Paper White.....	..... to .....	..... to
Roman Hyacinths.....	..... to .....	..... to
Freesia.....	..... to .....	..... to
Tulips.....	1.00 to 2.00	.50 to 1.00
Calendulas.....	1.00 to 2.00	1.00 to 2.00
Sweet Peas.....	.15 to 1.00	.15 to .75
Violets.....	.15 to .40	.15 to .40
Marguerites.....	1.00 to 2.00	1.00 to 2.00
Gardenias.....	3.00 to 35.00	3.00 to 35.00
Adiantum.....	.50 to 1.00	.90 to 1.00
Smilax.....	15.00 to 25.00	15.00 to 25.00
Asparagus Plumosus, & Spreng (100 bunches).....	15.00 to 35.00	15.00 to 35.00

J. J. COAN, INC.

115 WEST 25TH STREET
New York

Tel., Farragut 5413-5891

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CONSIGNMENTS SOLICITED

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Shipping Orders Carefully Filled.

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COMMISSION DEALER

FRANK MILLANG

HOME GROWN ASPARAGUS

CUT FLOWERS

IN ANY QUANTITY

55-57 W. 26th St., NEW YORK

NEWS NOTES.

East Orange, N. J.—Geo. Smith & Sons have leased the greenhouse range of Dr. Kitchin, and will grow stock to supply their retail store.

Eldora, Ia.—C. H. Hollid has purchased the greenhouse of J. M. Pierce. Mr. Hollid formerly managed the greenhouses for Mr. Pierce.

UNITED CUT FLOWER CO., INC.

Flowers Sold on Commission

Consignments of

Good Stock Solicited

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Aphine Mfg. Co., Madison, N. J.
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APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
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Henry A. Dreer, Philadelphia, Pa.
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Henry F. Michell Co., Philadelphia, Pa.
Plumous Nanus, Hatcheri and Sprengeri.
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Plumous Nanus.
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Asparagus Plumosus Seedlings, \$1.00 per 100, \$5.00 per 1000. Ready May 1st. COLINGDALE GREENHOUSES, Collingdale, Pa.

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A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

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R. Vincent, Jr. & Sons Co., White Marsh, Md.
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J. A. Peterson & Son, Cincinnati, Ohio.
Begonias.

BOILERS

Kroeschell Bros. Co., Chicago.
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King Construction Co., North Tonawanda, N. Y.

"King Ideal" Boiler.
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Metropolitan Material Co., Brooklyn, N. Y.
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Hitchings & Co., New York City.
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Lord & Burnham Co., New York City.

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Edwards Folding Box Co., Philadelphia.
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BOX TREES

August Rolker & Sons, New York City.
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J. M. Thorburn & Co., New York City.
Lillium Harrisii.
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Ralph M. Ward & Co., New York City.
French, Japan, Holland and Cold Storage
Bulbs.
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Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
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A. Henderson & Co., Chicago, Ill.
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Burnett Bros., 98 Chambers St., New York.
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Joseph Breck & Sons Corp., Boston, Mass.
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F. Rynveld & Sons, New York City.
Japanese Lily Bulb.
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W. E. Marshall & Co., New York City.
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New York City.
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C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK BRANCH, 8-10 Bridge St.

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Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 1000 for 35c.; 3000 for \$1.00 postpaid. I. L. PILLSBURY, Galesburg, Ill.

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Pompon Chrysanthemums.
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Elmer D. Smith, Adrian, Mich.
New Chrysanthemum Catalogue.
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J. A. Peterson & Son, Cincinnati, Ohio.

DAHLIAS

Peony Dahlia Mrs. Frederick Grinnell.
Stock For Sale.
JOHN P. ROONEY, New Bedford, Mass.

DAHLIAS—Continued

ORDERS BOOKED ANY TIME
For Fall or Spring delivery. Wholesale and Retail. Send for Catalogue. NORTHBORO DAHLIA & GLADIOLUS GARDENS, J. L. Moore, Prop., Northboro, Mass.

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John Wanamaker, Newest, Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to PEACOCK DAHLIA FARMS, Berlin, N. J.

Dahlias Lindhurst, Red Hussar, Arabelle, strong divisions, \$2.00 per 100. Cash. HENRY SCHAUMBERG, Hammonont, N. Y.

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Choice Flowering and Foliage Plants.
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High Grade Plants for Retail Florists.
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F. R. Pierson, Tarrytown, N. Y.
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Scottell Ferns, 2½ in. pots.....\$5.00 per 100
" " 3 in. pots..... 8.00 "
Boston " 2½ in. pots..... 5.00 "
ANTON SCHULTHEIS, College Point, N. Y.

FERTILIZERS

Pulverized Manure Co., Chicago, Ill.
Wizard Brand Cattle Manure.
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Reed & Keller, New York City.
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GERANIUMS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
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S. A. Nutt Geraniums, rooted cuttings,
\$1.25 per 100, \$10 per 1000; unrooted cut-
tings, 75c. per 100, \$6 per 1000. W. E.
ALLEN, 185 Exchange St., Leominster,
Mass.

GLADIOLI

John Lewis Childs, Flowerfield, L. I., N. Y.
New Catalogue.
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Dwarf Gladiolus.
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Greenhouse glass, lowest prices. JOHN-
STON GLASS CO., Hartford City, Ind.

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Peerless Glazing Point.
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Pecky Cypress.

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NUT GROWING

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In writing to Advertisers kindly mention Horticulture

ORCHID PLANTS

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Bound Brook, N. J.
Importers and Growers of Orchids.
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Julius Roehrs Co., Rutherford, N. J.
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Lager & Hurrell, Summit, N. J.
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HASSALL & CO., Orchid Growers and
Raisers, Southgate, London, England. Im-
mense stock of Cattleyas.

PAINTS AND PUTTY

The Dwell-Kaiser Co., Buffalo, N. Y.
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Metropolitan Material Co., Brooklyn, N. Y.
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PANSY PLANTS

200,000 large, stocky (Sept. transplanted),
field-grown blooming pansy plants, Henry
Mette's strain, all salable stock, satisfaction
guaranteed. \$1.25 per 100, \$11.50 per 1000.
Cash. Prompt shipping.

BRILL CELERY GARDENS,
KALAMAZOO, MICHIGAN.

PETUNIAS

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
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PEONIES

Peonies. The world's greatest collection.
1200 sorts. Send for list. C. BETSCHER,
Canal Dover, O.

Complete manuals on the Peony, Iris and
Phlox. 25 cents each in stamps. C. S.
HARRISON, York, Nebraska.

PECKY CYPRESS BENCHES

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H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

PLANT AND BULB IMPORTS

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THE CONARD & JONES COMPANY,
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SEEDS

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Seeds with a Pedigree.
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Seeds for the Florist

SHELF BRACKETS

Metropolitan Material Co., Brooklyn, N. Y.
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SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. LAGER
& HURRELL, Summit, N. J.

STRAWBERRY PLANTS

Strawberry Plants, \$2.50 per 1000. Cata-
logue free. BASIL PERRY, Georgetown,
Delaware.

SWEET PEA SEED

Ant. C. Zvolanek, Lompoc, Calif.
Gold Medal of Honor Winter Orchid Sweet
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Est. 1765

Inc. 1904

Pot Makers for a
Century and a Half

HEWS STRONG RED POROUS POTS

World's Largest
Manufacturers

Standard, Azalea, Bulb, Orchid, Fern, Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.

Writes for Catalogue
and Discounts

A. H. HEWS & CO., Inc., Cambridge, Mass.

Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.

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S. S. Pennock-Meehan Co., Philadelphia, Pa.
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WANTS, FOR SALE, Etc.

HELP WANTED

WANTED—Head Gardener, married, English, Scotch or Swedish, without family. Must be thoroughly experienced in greenhouse and outside garden. Permanent situation; cottage provided. Apply in own handwriting to "B. H. F., Box 1723, Boston.

FOR SALE

FOR SALE—Two windmills, steel skeleton type; 400 boxes 14-inch double glass; quantity wrought iron pipes; boilers; ventilating apparatus and sash; 4 complete greenhouses, 25 x 175; sell very cheap; remove at once. I. SUESSERMAN, 104 Ridgewood Ave., Newark, N. J.

FOR SALE—Cheap for want of use, one 6 H. P. Gas Engine and Pump. CHAS. HOFFMEYER, Carnegie, Pa.



DREER'S

Florist Specialties,
New Brand. New Style.
Hose "RIVERTON."

Furnished in lengths up
to 500 ft. without seam or
joint.

The HOSE for the FLORIST

1/4-inch, per ft., 15 c.
Reel of 500 ft., " 14 1/2 c.

3/8-inch, 1000 ft., " 24 c.
1/2-inch, " 13 c.

Reels, 500 ft., " 18 1/2 c.
Couplings furnished

HENRY A. DREER,

714 Chestnut St.,

PHILADELPHIA, PA.

STANDARD FLOWER POTS

If your greenhouses are within 500
miles of the Capitol, write us; we can
save you money.

W. H. ERNEST

29th & M Sts., Washington, D. C.

Use the only shading

E. A. LIPPMAN

6 HIGH STREET

Morristown,

New Jersey

Send for Booklets

GULF CYPRESS GREENHOUSE MATERIALS



Manufactured from clear, air-dried, red gulf cypress stock at our own mill with the most modern machinery. Will mill to your own details. An enormous stock on hand at all times for immediate delivery. We can furnish everything necessary for a complete greenhouse, cut and spliced ready for erection. Send for question blank.

PECKY CYPRESS BENCH LUMBER

We carry in stock 1 inch thickness for the bottoms and sides in all widths and lengths and 2 inch thickness ripped for cross pieces and legs.

Send for circular and prices.

PUT YOUR GREENHOUSE PROBLEMS
UP TO US.

We go anywhere in the U. S. to submit plans and prices.

Metropolitan Material Co.
PATENTED GREENHOUSE

1297-1325 Flushing Ave., Brooklyn, N. Y.

WE ARE SPECIALISTS IN GREENHOUSE GLASS PAINTS and PUTTY

IREQUOIS WHITE (Semi-Paste).
Most Perfect White Paint Made.

Be sure to get our estimates.

The **DWELLE-KAISER Co.**

241 Elm St., BUFFALO, N. Y.

Dreer's Peerless Glazing Points For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts. The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid.
Samples free.

HENRY A. DREER,
714 Chestnut Street,
Philadelphia.

FULL
SIZE
No. 2

The Florists Hall Association rate of insurance from Nov. 1st, 1916 to Nov. 1st, 1917 will be twenty cents per hundred square feet of single thick glass and eight cents per hundred square feet of double thick glass. For particulars address JOHN G. ESLER, Sec., Saddle River, N. J.

When writing to advertisers kindly mention **HORTICULTURE**.

JACOBS BUILT TO LAST GREENHOUSES

The strong, simple construction of Jacobs Greenhouses enables us to keep costs down to a minimum, without affecting durability or utility. In commercial greenhouse building, especially, where costs must be carefully considered, we honestly believe we can give you a "bigger dollar's worth" than the average. Backed by half a century's experience. Write for estimates—today!

S. JACOBS & SONS

1359-1385 Flushing Ave. Brooklyn, N. Y.



FOLEY MATERIALS

ARE THE BEST FOR

Iron Frame, Pipe Frame or Wood Frame GREENHOUSES

Estimate and Sketch Submitted Promptly

THE FOLEY GREENHOUSE MFG. CO.

3275 West 31st Street, CHICAGO, ILL.

HOT BED GLASS GREENHOUSE

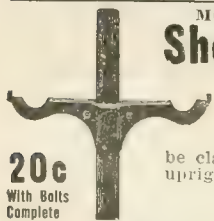
BEST BRANDS

LOWEST PRICES

SHARP, PARTRIDGE & CO.

2263 Lumber Street, CHICAGO

MOST PRACTICAL Shelf Bracket



20c
With Bolts
Complete

FLATS

12 x 20 x 3 inches — 8 cents

Non-Kink Woven Hose

In any length (one piece) with couplings, 14c. per foot. Remnants 15 to 30 feet, coupled, 10c. per linear foot. Unequaled at the price.



Hose Valve—70c.



All brass except the hand wheel. Has a removable leather disk which is easily replaced to keep water-tight. Stuffing box prevents leaks at stem.

MetropolitanMaterialCo

1297-1325 Flushing Ave., Brooklyn, N. Y.

GET OUR CATALOGUE

On Ventilating Apparatus and Greenhouse Fittings
ADVANCE CO., RICHMOND, IND.

MASTICA



For Greenhouse Glazing

USE IT NOW

F. O. PIERCE CO.

12W. BROADWAY
NEW YORK

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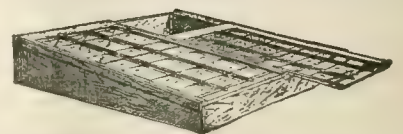
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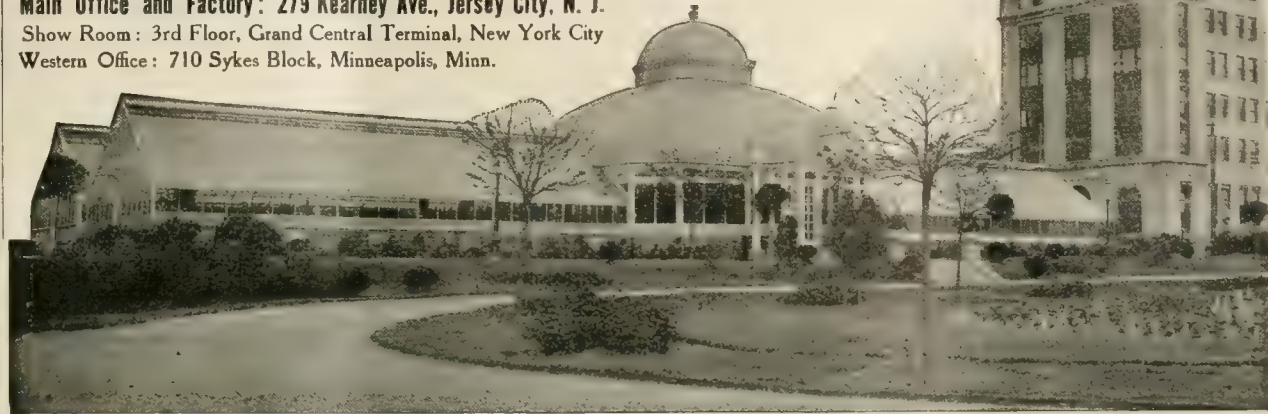
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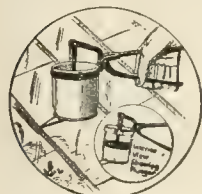
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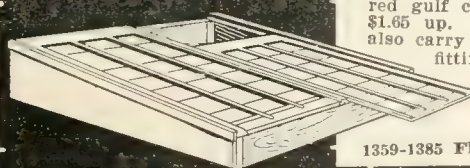
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No. 17
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NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toil, we ought to blame the culture, not the soil."—Pope.

Bougainvilleas

Bougainvillea cuttings may be struck from half-ripened wood, cut into 6-inch lengths, placed in sand over bottom heat, and in a night temperature of 70 degrees, allowing it to rise 10 degrees with sun heat. Keep moist and shade from the sun and they will root in a few weeks. Give them a good watering; afterward frequent sprinkling or syring will afford the necessary moisture. When rooted they should be taken out of the sand and placed in small pots filled with good loam containing a liberal sprinkling of clear sand. When the young plants get established they will make roots rapidly, and should therefore be shifted frequently until they are in 6 or 7-inch pots. A good compost for these shifts is turfy loam four parts, well-rotted manure, one part and some sand; the last shift can be made richer.

Compost

Those who had their sod piled up last fall and exposed to severe freezing should have soil of fine pliable nature by this time. It is time now to prepare compost for all cut flower stock. For such crops as roses, carnations and chrysanthemums, there is plenty of time during May or June to have it in good shape for these crops. The preparation of all compost should be done in a thorough going manner. To be right it should be turned several times before it is used. If manure was added to it last fall in the proportion of one load of manure to three loads of sod, it will have changed the proportion by this time to one-fifth by the gradual decomposition that takes place with the manure. So all such soil would be better to have a load or two of barnyard manure added to every four of soil during these turnings, but the application of additional fertilizing matter should be deferred until later in the form of mulches or liquid stimulants as the plants may actually require it. Be sure and keep your piles clear of weeds etc., until all used up.

Tuberous Rooted Begonias

Prepare stock which will be showy and fit for immediate effect by the end of May and if short on these begonias don't delay a minute such preparation. There is still time for the tubers will not require the length of time they did in January to commence sending out their roots and start growth. Those that were started early and are now showing flower buds will take lots of water when their pots become filled with roots. See that they have enough of shade to keep their foliage from burning, but not too heavy. These will make excellent specimens for early flowering. Do not keep too warm; anywhere from 58 to 62 degrees at night will be high enough. They should have some kind of shade from 9 in the morning until 3 in the afternoon.

Next week:—Asters; Chrysanthemums; Ficus; Hydrangeas; Palm Seed; Reminders.

Pelargonium

There is no finer flowering pot plant during May and June, and every retail grower should plan to have a good number of these on hand. Many pelargoniums can be disposed of during the bedding season. Let each plant have all the space necessary for growing into good shape. If they have their final shift and are becoming pot bound feeding is in order. Light doses of liquid cow manure are of great benefit and will help to keep the foliage green. Plants on hand now should be planted in a liberal pot, in a good loam with good drainage. They want a light bench and plenty of ventilation. If the pots can be plunged into soil or ashes this course is to be preferred to a bench situation where they will dry every few hours. Give them a look over two or three times a day now for water. Give light fumigations every week so as not to let fly get a foothold.

Phalaenopsis

As these orchids pass out of flower they are always better for a short rest. They should be kept comparatively dry, but should not remain dry for any length of time as they have no pseudo-bulbs in which to store up nourishment. The best time to overhaul these orchids is just before they send forth their new roots when they should be repotted or fresh material given. Where the compost is good it is not necessary to remove it all every year. Just pick out some of the old compost and renew with chopped live sphagnum and fern fibre in equal parts. If there is any orchid that requires good care at all seasons it is the phalaenopsis. When the compost assumes a slight crispness to the touch it is time to give them some water. Phalaenopsis amabilis, Schilleriana and Rimestadtiana are good kinds to grow. Shade should be increased from this out, by whatever means seems best. Spray overhead morning and right after dinner and sponge often to keep them clean.

Reminders

Pot off any seedlings of *Asparagus plumosus*, *smilax*, *grevilleas* and *Aralia Sieboldii*.

Give the hydrangeas, spiræas and other Memorial Day stock an abundant water supply.

Look out for aphids on the calceolarias and pelargoniums. Never let up on the weekly fumigation.

Carefully watch the crops of ten weeks stock, candy-tuft and feverfew for Memorial Day. Air freely, water carefully and scratch the surface to prevent baking.

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NO. 17

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The
 issue and
 how to meet it

Judging by the frequency with which the topic is broached wherever one chances to be, the most vital subject demanding attention at the present time, with the horticultural as well

as most other business interests, is the immediate direct

effect upon our particular industry, of the war crisis in which our country has been so reluctantly involved and the consideration of how we may, individually and collectively, meet the emergency, forestall and prepare ourselves against whatever may appear ominous and take such advantage of any course or opportunity as may appear to be discreet. The oppressive advance in the cost of coal, iron pipe, glass and other material entering into horticultural construction and maintenance, the scarcity and insatiable demands of labor, increasing freight rates, lack of transportation equipment by either land or water, and resultant flower pot famine, and the many emergencies, real or apparent, which are blamed upon the war—all these crowd upon the mental vision of the earnest business man when he tries to peer into the future and find out or reason out something on which to base his plans and map out a course which he can adhere to and keep up with the situation. There need be no solicitude as to the final issue, but the horticultural interests are entitled to a square deal and should be given an equal business chance with other industries in their relations with the public.

Wanted—
 a square deal

There is nothing in the cautious procedure suggested in the foregoing that should necessarily impel a man to a pessimistic conclusion as to what the immediate future holds out for him in a business way. The burdens enumerated—the high cost of material which he must have, increased taxation, exacting labor conditions, etc.—these are all things which he has only in common with his neighbors in other fields of industry and which may reasonably be expected to fully adjust and balance themselves in due time. The war situation as reflected by these developments carries nothing with it that should permanently affect our business disastrously or imperil its stability. Perhaps we can't make the speed we formerly did but we can at least insist that nobody rocks the boat. Unfortunately, however, other influences are at work, outspoken and pitiless, with the confessed purpose of alienating the public from the support of the florist, spreading broadcast advice that is hostile to the florists' business, tending to impair his investments, bring him to face possible financial ruin and, in addition cause further hardship upon toilers of both sexes in all branches of floricultural work. Writers in some of the most influential newspapers in the country have carried their cold-blooded drives very far in the past few weeks and we wonder for how long the flower and plant trade are going to submit to it without protest. Land and greenhouses all represent money investment—often the hard-earned accumulations of a life-time; coal costs money, labor costs money and the man who conducts a greenhouse has had to stand for his full share of the enhanced expenditure which attaches to all these indispensable factors in his business and that newspaper or that clergyman or organization of any kind which takes deliberate advantage of its touch with the public to single out the floral industry for special attack under such conditions of economic stress as now prevail and thus attempts to cripple one of the most refined and elevating commercial industries, certainly displays a perverted and supremely selfish mentality. We submit that the flower industry suffers in greater or less degree every time that one of these soulless visionaries breaks loose. The flower business cannot and should not stand for it.

Salvia

Writing the name *Salvia* at the head of this note I know the thoughts of the majority of my readers will first of all turn to the popular scarlet sage. During the midsummer and early fall months the aspect of an overwhelming number of our home grounds would lack one of their at present very conspicuous features without the strong fiery red banks of the annual *Salvia splendens* varieties. Certainly, as a very convenient bedder for near and distant color effects scarlet sage is simply indispensable, but on the carefully blended borders of our flower gardens on account of the intensity of its red tints it is sometimes rather difficult to place. Here *Salvia patens* with its intense pure blue spikes would be invaluable, but, unfortunately, *Salvia patens* is not free flowering enough. Under such conditions our interest in the hardy perennial sages increases. Blue being the dominant color of the garden types they are at their best after the great floral May and June climax on our mixed garden borders is past. Therefore in keeping up a desirable variety in forms and colors at a time of obvious need they prove decidedly valuable. This applies to *Salvia azurea*, *S. Pitcheri* and *S. uliginosa*, averaging a height of from 4 to 5 feet in growth and in blossom from August until frost. As one of the best perennial sages I consider the subject of our cover illustration, *Salvia virgata nemorosa*, producing its beautiful dark blue spikes during the latter part of June and throughout the month of July.

Last, not least, the white and carmine forms of our native Texas species *Salvia Greggii* merit our attention. Like the species *virgata nemorosa* they are of medium height and handsome bushy habit of growth and begin to flower late in June. Knowing that at present the possibilities of employing perennial salvias for floral midsummer and fall effects among horticulturists are not fully realized I should like to advise early and more frequent trials.

Hardy salvias thrive best exposed to the full sun in a rather light soil. Propagation by spring sowings and divisions. Light winter covering.

Richard Rothe

Glenside, Pa.

Semi-Tuberous or Socotrana Begonias

During May, June and July they will need more shade from time to time but always avoid heavy shading. A very good shading is a lathe frame with cheesecloth. Overhead spraying should be more frequent and heavier in the morning preceding a hot day and right after dinner time. Keep the air humid by wetting down the paths and beneath the benches. Keep the flowers and buds removed and pinch any runaway shoots. Examine the stalk carefully and where they appear pot bound shift them without delay. You can use a compost now and on of fibrous loam, leaf mould, well decayed cow manure in equal parts, with a sprink-

ling of sand and give plenty of drainage to each pot. Better specimens are raised by timely, short shifts, gradually working up to the final size than by long shifts skipping several sizes at every potting. During these months of hot summer they will be slow of growth. During the end of August they should get their final potting. The best pots are azalea pots of 5, 6 or 7-inch according to the size and vigor of the plants. A good compost is turfy loam three parts, well-rotted cow manure two parts, leaf mould and sand one part each. Pot moderately firm, but not too hard. After August discontinue all pinching on those intended for early flowering. When September comes we are in the start of a season when these plants make their main growth. The temperature should be about 60 degrees during night. Use only enough stakes to keep them up neatly and in such a way as to be inconspicuous as possible. Give them room now from time to time. They do better set up on inverted pots, which allows them better air and light. Keep reducing the shading so by the middle of October they will be standing full sun. During October and November *Gloire de Lorraine*, *Glory of Cincinnati*, *Florence Davenport*, etc., will be sending up their flower spikes. As they become sufficiently well bloomed, they can be greatly improved by the careful use of liquid manure once a week. These winter flowering begonias are very sensitive to any sudden changes of temperature and should be kept as near 60 degrees at night as possible. Where large specimen plants are grown in 7, 8 and 10-inch pans they should have plenty of room now.

JOHN J. M. FARRELL.

Crazy Hysterics

According to the papers, as Sweeney would say, we mustn't do a thing any more but raise eats and fight. No more posy raising, no more song singing, no theatres, no pictures, no parks, no anything of the beautiful and lovely in life from now on! While the newspapers talked about cultivating the vacant lots, that was all right, but now when they are talking about ripping up parks, and turning the conservatories into potato and onion patches—when 95 per cent of the farms in the country are only half cultivated—that's turning common sense into crazy hysterics.

I talked yesterday with a farmer who owns a 500-acre farm within 20 miles of Philadelphia and asked him how much of it was in cultivation. He said about 10 acres. I asked why not all of it. Can't get the help said he. Can you beat it? What he meant was that he couldn't get the help at the old price of \$30 a month, and his slow working mind will take some years to realize that labor is a commodity and subject to the universal law of supply and demand and not to custom and tradition. This is just a sample case. It is common everywhere, and yet they talk of ripping up our parks and squares!

G. G. Watson

CLUBS AND SOCIETIES

LANCASTER COUNTY FLORISTS' CLUB.

A small delegation of this organization visited Lititz on April 19. Yellow daisies and snapdragons were found in heavy quantity at C. S. Loeffler's. Keystone and the Giant varieties of snapdragon have been cutting uninterruptedly since October and are still good. Silver Pink is just coming into crop and will be discarded for next season. A trial on forcing Spanish iris has turned out fairly well but he finds that about forty per cent do not bloom the first year. A new early lavender sweet pea here was one of the sensations of the trip. It produces very long stemmed flowers with, in the majority of cases, four flowers to a stem.

Enos Kohr's place was visited. Over 100,000 carnations are under cultivation here. Alice has proved so satisfactory that one whole house will be devoted to it next season. His house of young stock from which they have just commenced planting into the field is given to carnations only. They are planted into soil on benches direct from the sand bed and topped pretty low. Here as everywhere the coal and labor proposition is a serious one for next winter.

At 7.30 the club meeting was called to order with only a fair attendance. The matter of not getting our empty cut-flower boxes returned was brought up and it will be given to our attorney along with other claims against the express company. A general discussion on the inferior quality of the box sent out the past year was indulged in and Mr. Elmer Weaver of Ronks, Pa., was appointed a committee of one to get prices and samples from the different makers to make up a club order of a carload or more.

J. Wade Galey gave us a very interesting paper on carnations, one strong point he brought out being that he attributed his success to the fact that he tops often instead of trying to make a cleanup at one time, and believes in allowing the young plants to have some foliage for the production of roots.

It was decided to hold our picnic in June with time and place fixed at the May meeting. The President appointed Harry K. Rohrer, Lemon Landis and J. De Barry Heinitch a committee to arrange said picnic.

The Programme Committee reported having secured Richard Vincent, Jr. to give us an illustrated lecture on Dahlias for the May meeting, with an invitation to the ladies to attend.

Visiting trips are discontinued until next fall.

ALBERT M. HERR.

Meetings Next Week

Tuesday, May 1.

Florists' and Gardeners' Club of Holyoke and Northampton, Mass.
Lake Geneva Gardeners' and Foremen's Association, Horticultural Hall, Lake Geneva, Wis.
Los Angeles County Horticultural Society, Los Angeles, Cal.
Paterson Floricultural Society, Y. M. C. A. Bldg., Paterson, N. J.
Florists' Club of Philadelphia, Horticultural Hall, Philadelphia, Pa.
Pittsburgh Florists' and Gardeners' Club, Fort Pitt Hotel, Pittsburgh, Pa.

Wednesday, May 2.

Tuxedo Horticultural Society, Tuxedo Park, N. Y.

Thursday, May 3.

Albany Florists' Club, Albany, N. Y.
Reading (Pa.) Florists' Association, Reading, Pa.
Southampton Horticultural Society, Odd Fellows Hall, Southampton, N. Y.

Friday, May 4.

North Shore Horticultural Society, Manchester, Mass.
North Shore Horticultural Society, Lake Forest, Ill.
Pasadena Horticultural Society, Yonkers, N. Y.
Peoples' Park Cottage Gardeners' Association, Paterson, N. J.
Yonkers Horticultural Society, Yonkers, N. Y.

Saturday, May 5.

Pacific Coast Horticultural Society,

NATIONAL ASSOCIATION OF GARDENERS.

The winners in the assistant gardeners' essay contest, for which Ex-President William N. Craig offered three prizes in gold—\$25, \$15 and \$10—have been awarded by the judges as follows:

1st—"Rock Gardening," by Marcel M. Twinney, second assistant greenhouse gardener to J. Ogden Armour, Lake Forest, Ill. 2nd—"Hardy Fruits," by Frederick W. Bateman, assistant in charge of greenhouses, Mrs. P. Boettger estate, Riverdale-on-Hudson, N. Y. 3rd—"Garden Chemistry in Soil Cultivation," by William S. Gillies, assistant gardener to R. H. Boggs, Sewickley, Pa.

The directors of the association have decided on the first week in December as the 1917 convention date. Chicago was voted the convention city at the annual meeting held in Washington last December.

President Thomas W. Head reports that much interest is being manifested in the first annual convention to be held in a western city among the members of the gardening profession located in the west, while a good-sized delegation from the eastern states is looked for. Many eastern members have already signified their intention of going to Chicago to the annual convention. President Head will shortly announce his convention committees.

LENOX HORTICULTURAL SOCIETY

The monthly meeting of this Society was held April 11. J. Johnstone, of Blythewood Farms, Pittsfield, read a paper entitled "The Young Gardener." Mr. Johnstone was accorded a rising vote of thanks. The delegates to the Davey Tree Expert Co., Kent, Ohio, made their report and a copy of which follows:

In making a report of my visit to Kent, O., to attend the convention of the Davey Tree Expert Co., as a delegate from this Society, I wish to frankly state at the outset that at no time was anything said or done at that convention which might compromise this society or its members individually. No soliciting for business was even hinted at, so that at the start we stand even.

Our outward trip in two Pullman cars was thoroughly enjoyed, going by way of Harrisburg and Pittsburgh, but as we traveled this distance during the night, any mention of the country we passed through is impossible, except that during the early evening the well-kept farms, and out-buildings all nicely painted and in good repair were conspicuous by their frequency while traveling between New York and Philadelphia. On Tuesday morning after breakfast we had a long wait at Hudson for a connection, but finally got away and soon reached Akron, our headquarters being at the Howes Hotel. We were met by a delegation of the Davey Tree Expert Co., who took care of us from the moment we arrived until our departure. After registering and having our rooms assigned, we left by special car for Kent, O., where we were taken to the Mason's Club, which we seemed to own during our stay. The first part of the arranged programme had to be somewhat modified on account of our late arrival, but a banquet to start with seemed to meet general approval, after which we were conducted to the Opera House, to witness a stereopticon lecture on Wild Flowers by Prof. House, of Albany, which proved most interesting and made a plea for the preservation of our wild flowers. This lecture brought home the fact of how few there are of these beautiful inhabitants of our woods and meadows with which we are on speaking terms, and only when they are projected on the screen do we realize how many beautiful things our feet trample to death, unknown and unappreciated. Wild flowers are most interesting, and I can but recommend their study to

the young men of our society. After the lecture we had a general good time at the Mason's Club until a special trolley conveyed us back to Akron, where a banquet was given at the City Club in our honor, a splendid dinner was served and the president of the City Club was called upon to speak. He having been intimately acquainted with the Father of Tree Surgery for many years, during his talk he spoke very highly of Mr. Davey, who being a pioneer in his profession, had a lot of uphill work to contend with, until his son, Martin L. Davey, was through college and able to start the work of organization. His personality, business sagacity, and high ideals, has developed a wonderful organization, a credit to any man's genius. They have set high ideals of efficiency, and the whole working force is imbued with the same desire to do the best only. It was a great revelation to me, to see such unity of purpose between employer and employee, the magnetic influence of their president permeates the whole organization and they are endeavoring to work up into his ideals of perfect work, thereby creating satisfied customers, and increased business. Many of those who had seen the actual work of the company spoke very highly of the quality of the work done, and all spoke of the courteous and practical men who were sent to do the work. On Friday morning the special car which came to the hotel for us each day, took us out to Kent, where we spent the morning looking over the work of the students who are taking the course. They were studying everything in connection with plant growth, and causes of disease, insects which do injury to trees, and remedies for their extermination, and a very interesting time was spent among the students, and one could only be convinced that they were on the right track, in training their own men to perform the work which is in store for them later, and do credit to the company. By a process of elimination they only keep the men which come up to their standard, and I feel sure there are no drones in the Davey hive. Their working force consists of a bright, active lot of young men in fact one rarely meets with such a business equipment. After looking over the students' work we were conducted to see the offices, and found everything well up to their standard of perfection, even to the quality of the many fair stenographers all busily at work. After luncheon we again went to the opera house, and listened to a practical talk on Evergreens by H. Wild, of Greenwich, Conn., followed by a very interesting lecture by J. Horace Macfarland, of Harrisburg, Pa., who made a plea for the trees. This was to have been a stereopticon lecture, but the power having been shut off, the pictures were shown at the banquet in the evening. Following this we all had an opportunity to witness some of the tree surgery done by the students on the Ohio State Normal School grounds. The trees were very large oaks, magnificent trees, but decay has set in and only the scientific treatment given them by the Davey Co. can save them from absolute loss.



THE FAIRY ISLE LILY FIELD.

Photo Taken at Sunnylands, Bermuda, March 24, 1917. Theodore Outerbridge, Proprietor, in the Picture.

Many trees were cleaned and braced ready for filling, others had been treated, the cavities being well cut out, and some were finished, and looked perfectly convalescent. We also had an opportunity to see filling which had been done four years, still good, but the earlier work only served to show what great improvement had followed the closer study of the trees' requirements.

At the banquet on Friday evening we had an opportunity to meet Father John, and listen to his stirring appeal to his working force, which he addressed as My boys. His great love for trees was the impulse which has been the means of developing such an organization, but he forcibly remarked that success had not come through any individual effort, but by unity of thought and action applied to the whole working force, forming ideals, and working up to them. After his speech his force presented him with an enormous loving cup inscribed "Father John from his boys" which so deeply impressed him that he was unable to respond for some time. Many excellent speeches were made during the evening, which lasted until a late hour when our private car took us back once more to Akron. This was our farewell to Kent, as on Saturday morning we had an opportunity to visit the Goodrich Tire Factory, which proved a very enjoyable event. We also had a group photograph taken of the delegates, and after this we were once more entertained at luncheon by Mr. Martin L. Davey, and all spoke highly of the generous treatment we had received. A very pleasing duty devolved upon A. J. Loveless, of presenting to Mr. Davey a slight expression of our appreciation of what had been done for us, and for the very interesting time we had all enjoyed. This was expressed in the form of a pale green cut glass double ink stand, and Mr. Davey feelingly expressed his

appreciation, and said that it should always be on his desk as a reminder of the sentiments which it conveyed. After being reimbursed for all our expenses we were conducted to the station, and once more started for home, all being of one accord in praise of the efficient outfit which comprised the Davey Tree Expert Co.

ALFRED J. LOVELESS,
EDWIN JENKINS,
Delegates.

AMERICAN DAHLIA SOCIETY.

We have received from Secretary J. Harrison Dick, Bulletin No. 6 of the American Dahlia Society. It contains some good articles on dahlia topics, by J. Ebb Weir, Jr., W. W. Wilmore, J. P. Rooney, F. J. Aichle, Mrs. Chas. H. Stout, George L. Stillman, W. O. Wykoff and Pres. R. Vincent, Jr., as well as editorial notes, etc., and a complete list of members, all of which makes up a very useful and interesting publication for the dahlia lovers. The secretary has some ambitious plans ahead, among them being the publication of Prof. Hall's list of dahlia names which will fill the place of a standard reference list and be another accomplishment of permanent value to the credit of the society.

THE AMERICAN INSTITUTE OF THE CITY OF NEW YORK.

The American Institute of the City of New York and the American Dahlia Society will hold an exhibition of dahlias in the Engineering Society Building, 25-33 West 39th street, New York City, on Sept. 25 to 27, 1917, also the Annual Chrysanthemum Exhibition will be held on Nov. 7 to 9, 1917, at the same place.

WM. A. EAGLESON,
Secretary Board of Managers.

A SUCCESSFUL INNOVATION.

An innovation in the way of flower shows which met with considerable success was tried in New Brunswick, N. J., April 12 to 15, 1917. Instead of having the flowers all grouped together in one large building or room, according to the conventional method of holding flower shows, exhibits were placed in various store windows along George street, the main business street of the city. The purpose of employing this new and very novel method of displaying the flowers was to attract the notice, not only of those who would be willing to take the trouble to visit a show held in a special building, but also of those who are not interested in flowers or their cultivation and whose attention could be gotten only by placing the flowers where their eyes could not fail to fall upon them often during the walk to and from business or at other times during the day.

Judging from the number of people who might be seen gathered around the windows in which the different exhibits were placed, this original method of displaying flowers was very successfully introduced. And besides the success attending it as a flower show, another phase of it is worthy of note,—its advertising value. No difficulty was experienced in obtaining the use of store windows in which to place the exhibits, and it is certain that should another such event take place many more merchants would be willing and anxious to offer the use of their windows.

Another advantage of this method was that it gave one the opportunity of appreciating the beauty and attractiveness of the individual blooms. After visiting a flower show of the kind usually held one retains but an impression of a riot of confused and mingled beauty, with no distinct and vivid remembrance of individual flowers or plants. Seeing the various exhibits one at a time, however, with the name of each bloom plainly written on a card attached to it, one is able to remember those which appear most attractive, for reference when planning a home garden.

(The foregoing has just come to us through sources outside of the trade and as no mention is made therein of flower store participation in the enterprise so we are thus far quite in ignorance of the attitude of the local flower trade towards the affair or of the promoters toward the trade. But it reads good and is suggestive of things which we believe in and should like to see developed. Comments by our readers are invited.—Ed.]

A TRIBUTE TO THE MEMORY OF GEORGE WASHINGTON.

When the gardeners met in Washington last December they journeyed to Mount Vernon and while there suggested to H. H. Dodge, superintendent of the estate, that it would be very nice to have an English yew tree planted there. He assented and accepted the offer of the gardeners to furnish such a tree. W. N. Craig, who was then president of the association, appointed a committee to arrange for the planting and so on April 23, Theodore Wirth, of Minneapolis, vice-president, and Martin C. Ebel, secre-

Coming Exhibitions

Boston, Mass., June.—Massachusetts Horticultural Society Outdoor Exhibition.

Philadelphia, Pa., June.—Exhibit American Peony Society.

Pittsburgh, Pa., June 13-16.—Flower Show at Motor Square Garden under the auspices of the Garden Club of Allegheny County.

Rochester, N. Y., June 15.—Peony Show of the Rochester Florists' Association, at Convention Hall.

Hartford, Conn., June 18-20.—Rose Show, Elizabeth Park, by the American Rose Society.

Boston, Mass., June 23-24.—Rose, Peony and Strawberry Exhibit, Massachusetts Horticultural Society.

Newport, R. I., July 4.—Show of outdoor Roses by the American Rose Society.

Boston, Mass., July 7-8.—Annual Exhibit of the American Sweet Pea Society, under the auspices of the Mass. Horticultural Society.

Winnetka, Ill., July 12.—Exhibit Flowers and Vegetables.

Winnetka, Ill., Aug. 16.—Asters, Gladioli and Dahlias.

New York, August 23-26.—Eighth Annual Exhibition American Gladiolus Society, Museum Building, Botanical Gardens, Bronx Park.

Newport, R. I., Sept. 5-7.—Annual Fall Show, Newport Horticultural Society.

Tarrytown, N. Y., Nov. 7-9.—Annual Fall Show, Tarrytown Horticultural Society.

Syracuse, N. Y., Sept. 10-15.—New York State Fair.

San Francisco, Calif., Sept. 21-22.—Show of the California Dahlia Society.

tary of the association, William F. Gude, Washington representative of the S. A. F. and O. H.; George Wesley Hess, superintendent of the Botanic Gardens; Edward S. Schmid, of Washington; A. C. Godward and A. B. Gowdry, both of Minneapolis, made the trip to Mount Vernon for the actual planting of the tree.

GARDEN AND CLUB WORK INSTRUCTION.

Instruction for those who are to organize and supervise garden and club work projects in Massachusetts, 1917, will be given at the Massachusetts Agricultural College, Amherst, on Thursday and Friday of each week. All meetings in French Hall, Room E. Following is the program:

THURSDAY.

8.00 A. M. A general statement of the situation we are facing. Director, William D. Hurd.

9.00 A. M. Junior extension club work organization. Supervisor, George L. Farley.

10.00 A. M. Garden planting, etc. Professor A. S. Thomson.

1.00 P. M. Garden practice, implements, etc. Professor A. S. Thomson.

3.00 P. M. Demonstration, canning. Miss Marie Sayles.

FRIDAY.

8.00 A. M. Drying, evaporating, etc., fruits. Professor W. W. Chenoweth.

9.00 A. M. Dry storage of vegetables. Professor A. S. Thomson.

10.00 A. M. Garden pests. Doctor H. T. Fernald.

1.00 P. M. How to organize work in towns. Professor E. L. Morgan.

3.00 P. M. Garden practice, implements, etc. Professor A. S. Thomson.

IN THE LINE OF PROGRESS.

Editor HORTICULTURE:

Dear Sir.—During the week before Easter I visited the show-rooms in Grand Rapids of Freyling & Mendels, the florists. Never within my recollection have I seen such a delightful profusion of greenhouse flowers. The plants in the lower or main rooms were grouped with rare feeling for beauty, and careful regard for form and color. For example: pale primrose Azalea mollis with standard Wistaria near (lavender) with a foreground of Cinerarias in tones of bluish-violet. There were almost no clashes of color.

Then how far-sighted are they who dare in a smaller city to force and offer for sale such Daffodils as Mme. de Graff and Lucifer. How thoroughly I agree with a writer in the Florists' Exchange, who said lately that the sad lack in the New York flower shows is the absence of competition in new varieties of flowers. We shall never learn—we shall never teach—until the body of our florists and flower-show exhibitors act on such suggestions as this and upon such examples as I have mentioned above.

To speak of one other matter which should deeply concern the florists; it is now more important than ever before that the salespeople of the florist's establishment should be ready with the correct common botanical names of every flower shown. The last few years of gardening fervor in the country have created an educated flower-buying public and the time is here when a lack of intelligence on the part of those who sell flowers will surely be visited upon them by a falling off in their business. Very truly yours,

MRS. FRANCIS KING.

Alma, Mich., April 18.

Plant Propagation, Greenhouse and Nursery Practice

By M. G. KAINS

We have had many inquiries from time to time for a reliable and up-to-date book on plant propagation, but were always at a loss to find any publication that we could recommend. The subject has been dealt with in fragmentary manner only in books that have come to our notice. So it is well that this new work has been issued, especially as it is both comprehensive and practical, and it should meet with a ready sale among plantmen, nurserymen and gardeners. There are nineteen chapters covering in detail topics of germination and longevity of seeds, propagating by buds, layering, cuttings, grafting, etc., fruit tree stocks, cions, etc., and there are eight pages of condensed cultural instructions in tabulated form, covering annuals and perennials from seed, woody plants, evergreens, vines, bulbs and tubers, greenhouse and house plants, ferns, palms, water plants, orchids and cacti. The illustrations are numerous, comprising 213 figures and half-tone plates. There are 322 pages well bound and on heavy paper, teeming with helpful information. It is a book which no cultivator can afford to do without. It is worth many times its price. Copies can be supplied from the office of HORTICULTURE at publisher's price, \$1.50.

Horticulture Publishing Co.

147 SUMNER ST., BOSTON, MASS.

"Get them at Dreer's"

Hardy Perennials

For many years one of our most important specialties, our stock this season is again in prime condition, more extensive than ever, with a complete assortment of both standard varieties and novelties.

Roses, Two Year Old Plants for Outdoor Planting

Our Roses are all field grown plants which were dug in the fall, and which during the winter months were potted into 5 and 6 inch pots. They are stored in cold houses and frames, being retarded as much as possible, and are just the sort of stock that will please your retail customers. We are particularly strong on Hybrid Teas but carry also nearly all other types.

Aquatic Plants

Eight acres of Ponds are devoted to Hardy Nymphaeas and Nelumbiums alone, a large assortment of Tropical Nymphaeas, Victoria Regia, etc., as well as sub-aquatic plants for marginal planting. If interested in these, send for our book 'Dreer's Water Lilies.' It is not only descriptive, but gives full cultural directions.



ALTHEA WILLIAM R. SMITH

Hardy Shrubs and Vines

A choice assortment of standard varieties—Altheas (including our own splendid novelty William R. Smith) Azaleas, Callicarpa Purpurea, Hydrangea Aborescens Grandiflora, and Paniculata Grandiflora, Cotoneasters, Buddleias, Deutzias, Forsythias, Prunus, Philadelphus, Spiraeas, Viburnum, Weigelas, Ampelopsis, Akebia, Aristolochia, Clematis, Honeysuckles, Wisterias, etc.

Decorative Plants

Palms and Ferns, Aspidistra, Crotons, Dracaenas, Ficus, Pandanus, etc. Amaryllis, Tuberous-Rooted Begonias, Caladium Esculentum and a splendid assortment of Fancy-Leaved Caladiums, Golden Yellow and Spotted-Leaved Callas, Hyacinthus Candicans, Gladiolus, Lilies, Montbretias, Tigridias, Tuberoses, etc.

All of the above and many others are fully described in our current Wholesale List, January to June, which will be mailed upon request only to persons engaged commercially in Horticulture.

HENRY A. DREER

714-716 Chestnut Street,

Philadelphia, Pa.

THE YOUNG GARDENER

An Address Before the Lenox Horticultural Society. By John Johnstone.

Young men—the enviable and universal reputation established by some of the older members of this Lenox Horticultural Society is of more than passing interest. Just after locating in Pittsfield last fall I wrote an old boss in England to the effect that I had now settled in Berkshire County, Mass. He replied to my letter as follows: "The names Berkshires and Lenox are familiar to me as being associated with horticultural giants. Is this the same Berkshire you wrote of. It must be." He thus put the question and himself answered in the affirmative. Here then is it exemplified that Lenox is no strange name to gardeners across the briny, and here too will the young man find an opportunity for development such as few other districts present. I would not, however, lead anyone to assume that the fact of his having worked in any one or more of these gardens guaranteed efficiency. Such influence, in British gardens, possesses material advantages. There, a young fellow's capabilities are estimated by the amount of influential power at his command, rather than by his knowledge of the craft. In democratic America men in our profession rest on their merit, and right here, I repeat, is an environment of unbounded opportunity for any young man to learn advanced gardening and the rudiments of estate management. Men of the rising generation, in my opinion, are sometimes prone to await the magic impulse of what might be called "luck." Having become specialists in one branch perhaps, and this usually under glass, we patiently, and with complacency rest our oars on the precedent that a knowledge of 'mums, or roses, or carnations are the necessary and absolute qualifications of an up-to-date gardener. Unfortunately the head men in their endeavor to procure efficient help encourage this attitude to some extent. Almost invariably in filling a berth they give preference to the young man who previously held a similar position. Thus instead of helping the rising generation to become proficient all-round gardeners, they do in some measure promote an undesirable state of affairs. Nevertheless, there are few head men who would deny an ambitious and conscientious young man an opportunity for development. So that reducing the question to a normal basis it must be admitted that the whole situation is in the hands of the individual most concerned—the young gardener.

Let me then, young friends, emphasize the fact that just as the strength of a chain lies in its weakest link, so a man's character, his general knowledge and initiative power are judged by the weakest points. If then we choose to hibernate in the greenhouses as horticulturists, alone, becoming oblivious to the three co-ordinate branches of horticulture, pomology, vegetable culture and landscape gardening, we naturally fail as practical gardeners. By landscape garden-

ing I mean more particularly the planning and planting of herbaceous borders, shrubberies and the like, as to perspective and the employment of suitable varieties. These are subjects worthy of our attention, and if circumstances for the time being prevent our gaining practical knowledge, nothing hinders us from taking a lively interest in outdoor gardening and of at least becoming fairly conversant on matters pertaining to this department. However, one ounce of practice is worth a pound of theory and I, therefore, advocate practical treatment of the subject. Forget the greenhouse for a year or two during your career as an assistant. We put millstones about our necks when we confine our energies to one branch of gardening.

"The 'chip' of conceit will sometimes lodge on the shoulder of the young grower whose chrysanthemums, roses, or carnations win honor for his chief at the local show. Young fellows often overlook the fact that previously, maybe for years and years, this same head gardener has won for himself similar honors and is, therefore, justifiably entitled to his enviable reputation. We know of some old so-and-so happily situated and who, in our estimation, knoweth not the first thing about potting a chrysanthemum! Thus, unbridled, our ideas flaunt. How easy to overlook the fact that this same old so-and-so has years ago outgrown, so to speak, elementary gardening, and is now responsible for results of an order practically unknown to us of less ripe experience. That which is often uppermost in a young gardener's mind might be less interesting to the head man, and probably remote in the mind of an employer. Satisfied that we must now get out of the rut, our best intentions will stagger if they do not entirely succumb to an illusory dread of ridicule. We seem to be endowed with a natural timidity when confronted by an edifying proposition, and quite heedless of the old saying, "He who fears ridicule is at the mercy of every fool."

Nothing would give me greater joy than to have at these meetings each young member voluntarily give of his experience something to stimulate enthusiasm and evoke criticism. There is nothing derogatory in being criticised. Take notice, those who expose themselves to and can merit criticism are generally doing something of the worth while order. Let us then revolutionize our standard of preparedness. Apathy on our part cannot be too strongly condemned, and while the rut is hard to steer clear of, well directed energy will pull us through.

Don't forget that some of the old school hail from Missouri and my advice just now is that "when you feel in earnest seize the very minute; if there's anything you can do, or think you can, begin it."

Not all young men lack the incentive but oh! so many hate to get busy.

A PROGRESSIVE MASSACHUSETTS INSTITUTION.

The Essex County Agricultural School finished its class room work April 18. This early date is in response to the "Increase the Agricultural Production" campaign and also is along the line of progress towards the time when Agricultural Schools and Colleges will be in session during the growing season when live material is available for the study of such subjects as Botany and Entomology and horticultural and agricultural operations are in progress. The student of these subjects should vacation when Mother Nature vacations—in the winter.

The school was not established as a stepping stone to a college agricultural education, although it may be so used but gives an opportunity to obtain a vocation High School education. True to the vocational idea, that is getting practical experience at the same time as learning from books and lectures the students carry on at their homes or at the school such projects as market gardening, poultry raising, fruit growing, floriculture, etc., or get experience at nurseries, private estates, market gardens, poultry, dairy or fruit farms and greenhouse establishments.

This school is in session twelve months of the year, the instructors supervising the projects during the summer and the students checking up by practical experience the book knowledge gained during the winter.

Horticulture is represented on the school faculty by the following instructors: Frank H. Wilson (Mass. Agri. College), formerly at N. H. State College, and with Thomas Roland of Nahant, instructor of Floriculture and Botany; Ellwood Allen, M. A. C., in charge of Landscape Gardening; Lothrop Davenport, instructor in Fruit Growing; James Salter, a well known North Shore gardener, and Robert A. Mitchell are responsible for Vegetable Gardening.

CLUB AND SOCIETY NOTES.

The following officers were installed at the annual meeting of the Florists' Association of Buffalo held in Kastings hall on the evening of April 17. President, Henry H. Elbers; vice-president, Mark Palmer; secretary, William Legg; financial secretary, Oliver Klingemeier; treasurer, Edward Stroh; directors, W. J. Palmer, W. H. Eiss and Louis Neubeck.

At the monthly meeting of the Stamford Horticultural Society last Friday evening eight new members were added. Alexander Geddes read a paper on "The Culture of Vegetables," which gave some very timely pointers to the numerous amateur gardeners present. Cultural certificates were awarded to Mr. Bische for collection of French hydrangeas, and A. Wynn for antirrhinums. J. D. Foster received high commendation for *Spiraea rubens*, and thanks were extended to A. Geddes for carnations and *Gerbera Jamesoni* and to A. Pederson for Yarrowa sweet peas.

F. S. HARTWRIGHT, Cor. Secy.

Visitors' Register

St. Louis—Sam Levine, New York.
Boston—Paul de Nave, Fall River, Mass.

Atlantic City, N. J.—Max O. Jordan, Brooklyn, N. Y.

Hartford, Conn.—Theodore Wirth, Minneapolis, Minn.

New York—Charles P. Guelph, repr. Jerome B. Rice Seed Co., Cambridge, N. Y.; Louis J. Reuter, Westerly, R. I.; W. J. Palmer, Buffalo, N. Y.

Pittsburgh—F. G. Nelson, representing Burlington Willow Ware Shop, Burlington, Ia.; Mr. Rosenfeld, Wertheimer Bros., New York City; Isaac M. Bayersdorfer, Phila., Pa.

Philadelphia—Charles P. Guelph, Jerome B. Rice Seed Co., Cambridge, N. Y.; S. Mortensen, Southampton, Pa.; W. J. Palmer, Buffalo, N. Y.; Karl S. Landolt, of G. E. M. Stumpp, New York; R. H. Holmes, Harrisburg, Pa.

Chicago—J. J. West, Minneapolis, Minn.; Mrs. Francis Spickermann, Sandwich, Ill.; M. Bloy, Detroit, Mich.; Mr. and Mrs. Walter Taepke, Detroit, Mich.; J. J. Karins, representing H. A. Dreer, Phila., Pa.; A. M. Terrill, Calgary, Alberta.

Washington, D. C.—A. Lehravendael, Lisse, Holland; S. H. Bayersdorfer, Phila., Pa.; A. H. Hatke, Ratcliffe & Tanner, Richmond, Va.; I. Rosnosky, H. F. Michell Co., Phila., Pa.; Frank G. Rynsbarger, Lisse, Holland; B. Hammond Tracy, Wenham, Mass.; Theodore Wirth, Minneapolis, Minn.; A. B. Cowding, Tarvia, Minn.; Winsham Lyon, Minge Floral Company, Mobile, Ala.; A. C. Godward, Minneapolis, Minn.

A DEATH WAVE.

The past winter a death wave swept over a large section of Kansas and Nebraska. It killed the winter wheat and injured the alfalfa badly. In raising iris for 25 years I never had any trouble with winterkilling, but half of our iris was killed. The Foster hybrids were the first to go, Lohengrin, Mithras, Nibelugen and others of that class went under. Some of our own new creations of great beauty succumbed. The winter was very cold and the ground was very dry. All iris that happened to be mulched got through all right, except the great Mesopotamia, which went under notwithstanding generous protection.

A raised bed of iris, and good mulching will take them through. My new foliage iris with the most charming, long, deep green, pendulous leaves, came through all right. The foliage is the richest I ever saw. I got 90 from one 3-year-old plant and every one in full vigor, and glad to see the spring come. The seed pods are like a weaver's shuttle in shape. I have saved some seed well fertilized by the bees and hope for good results. This iris is certainly unique—a class by itself. I have great hopes for it.

C. S. HARRISON.

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Class Articles Special effort has been made to secure the best cultural advices for the plants requiring peculiar or particular handling. Here are some of the titles of these articles: Ants; Autumn Gardening; Bedding; Diseases; Drainage; Floral Designs; Formal Gardening; Hotbeds and Coldframes; Insects; Landscape Gardening; Lawn Planting; Orchards; Rock Gardening; Subtropical Gardening; Tools and Implements; Village Improvements; Window Boxes, etc.

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OBITUARY.

James McClane.

James McClane, a prominent florist in the Southern section of Philadelphia, died on the 23rd inst. He had been in business there for 45 years, as a grower and retailer, and was one of the real "old timers." He was highly respected by all who knew him and he had hosts of friends, both business and social. He was a man of the strictest integrity, and so successful in his business that he left a good competence behind him for his family, when he passed on to his fathers at a ripe old age.

A. I. Philips.

The death of A. I. Philips of West Salem, Wisconsin, deserves more than a passing notice. There were seven of us old men—members of the Minnesota Horticultural Society. We were of nearly the same age, we seldom failed to meet at the horticultural meetings in December. What good times we had. Mr. Philips was one of the leading horticulturist of the northwest. He revolutionized apple growing by top grafting on the Virginia Crab. He brought out the fact that the stock controlled the scion to such a degree, that it made a tender variety hardy, and a shy bearer prolific. I suppose the orchard he planted at West Salem was one of the most prolific that ever bore. He was always in demand for after-dinner speeches at our banquets and his droll way of putting things, and his sparkling wit kept the audience in a roar. He was a year younger than myself. Charles G. Patten, one of the

world's foremost pomologists from Charles City, Iowa, was another of our group. He and myself are of the same age—84. Association with such royal men is one of the pleasantest memories of my life. C. S. HARRISON.

A CHOICE SPRING BLOOMER.

The old favorite Chorizemas are coming again into popularity with commercial plant growers in the past



nicely to any method of training either in large or small pots. The example few years. They adapt themselves shown in the engraving was in a 7½ in. pot at the establishment of A. L. Miller, who grows Chorizemas in quantity as an Easter specialty. The

fine polished holly-like foliage and the racemes of odd orange and red flowers make a very pretty effect. In culture Chorizema requires conditions such as is given to heaths, azaleas and other New Holland plants—particularly hard-pressed firm soil when potted. During the flowering and growing periods they require water in abundance.

A CORRECTION.

Prof. A. C. Beal, of Cornell University, calls our attention to a line in our reading notice of Cornell Extension Bulletin No. 10, in a recent issue of HORTICULTURE, in which we say that "the bibliography (Gladiolus) is not so complete as it should be." Professor Beal suggests that the line in question might have been written without our having taken into account the bibliography which had appeared in Bulletin No. 9. On investigation we find this to be a fact. We had considered in our criticism only the pages of the second volume which were devoted to the "Bibliography" not realizing that same had been but a continuation from the previous publication. We should be very sorry to do an injustice to Prof. Hottes, who evidently has done a very painstaking work on these bulletins. Taking the two publications together the bibliography is the most complete ever published in an experiment station on any flower or crop. The bibliography in Studies 1 covers the botany, history and evolution of the gladiolus. That in Studies 11 covers only those particular phases of the work treated therein and that is where we went astray. We trust this explanation will be accepted as making amends.



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QUARANTINES ON FIVE-LEAFED PINES, AND CURRANT AND GOOSEBERRY PLANTS.

Two orders have just been issued by the Secretary of Agriculture, effective June 1, 1917, on account of the white pine blister rust. One of these

orders prohibits the further importation of currant and gooseberry plants from Europe and Asia. The other order quarantines all the States east of and including the States of Minnesota, Iowa, Missouri, Arkansas and Louisiana, and prohibits the movement from these States to points outside the quarantined area of all five-leaved pines and currant and gooseberry plants. There is a further prohibition of the movement of five-leaved pines and black currant plants to any point outside the heavily infected region comprising the New England States and the State of New York. This additional quarantine is made for the purpose of protecting other quarantined States, as well as the remainder of the country, from possible infection by white pine blister rust by means of the plants mentioned.

While this domestic quarantine, as noted, does not become effective until June 1, the attention of all nurserymen is called to the fact that in the meantime their voluntary agreement of a year or more ago not to ship any white pines or currant or gooseberry plants into the Rocky Mountain and the Pacific Slope States is expected to remain in full force and effect, and the inspectors of these Western States have been notified of this understanding.

GREENHOUSES BUILDING OR CONTEMPLATED.

Medfield, Mass.—Peter Pederzini, one house.

Eatonville, Wash.—George H. Vail, range of houses.

Minneapolis, Minn.—Osca Swanson, range of houses.

Amesbury, Mass.—J. J. Comley, vegetable house.

Juneau, Alaska.—J. P. Anderson, two houses, each 18x100.

Oaklawn, R. I.—William Hay, additions and alterations.

Cresskill, N. J.—George Warner, Grant avenue, rebuilding.

Madison, N. J.—W. H. Duckham, range of houses, each 60x600.

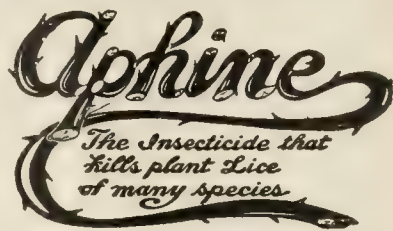
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Production of Bermuda Onions in Texas.

The condition of the Texas Bermuda onion crop estimated by the Truck Crop Specialist of the Bureau of Crop Estimates in a report issued at Laredo, Texas, on April 4, 1917, at 68.5 per cent. of normal, forecasting a yield of about 246 crates per acre, or a total production of 2,964,300 crates, the equivalent of 6,388 cars of 464 crates each, and forecasting the production for Webb County at 2,520 cars.

From a large number of reports received from all parts of the Bermuda onion district, it appears that the condition of the crop on April 15 was 67.8 per cent. of a normal crop, a decrease of less than one point as compared with April 1, and the estimate of that date is, therefore, reaffirmed.

The Truck Crop Specialist personally inspected around 2,500 acres in Dimmit County on the 13th of April, where a failing water supply has caused many persons to fear an extreme shortage of the crop. He was convinced that the crop then made fully warranted the forecast of April 1.

LEON M. ESTABROOK,
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13/up 25 in a case	1.60	12.00	

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Brazilian Collection of 12 varieties. \$1.50 per doz., \$12.00 per 100.
Mixed Brazilian Varieties. \$1.25 per doz., \$10.00 per 100.

TUBEROSES

Double Pearl. Bulbs, 4 to 6 in. in circumference.	100	1000
	\$1.00	\$7.50

Arthur T. Boddington Co., Inc., 128 Chambers St., New York City



Seeds

FOR THE FLORISTS
For a most complete stock of Seasonable Seeds

Bulbs

FOR THE FLORISTS
For immediate use or future delivery. Ask for quotations

Fertilizers

FOR THE FLORISTS
Pulverized Sheep or Cattle Manure. Clay's. Thompson's. Dried Blood.

Sundries

FOR THE FLORISTS
Insecticides, Spraying Implements, Small Tools, etc.

YOU ought to have our retail and Florists' Special List. If you have not, write for one.

FOTTLER, FISKE, RAWSON CO., THE SEED STORE, Faneuil Hall Square BOSTON

"Seeds with a Lineage" All Varieties
Thoroughly tested at our trial grounds, Raynes Park, London, England. Send for Catalogue

CARTERS TESTED SEEDS, Inc., 166 Chamber of Commerce Bldg., Mass.

Notes

A bill has just been introduced into Congress looking to an appropriation of \$250,000 for the purchase of seeds, bulbs, shrubs, vines, cuttings, and plants. The purchase is to be made by the Secretary of Agriculture, and five-sixths of the purchase is to be allotted to the Senators, Representatives, and Delegates for distribution among their constituents.

Owing to the conditions prevalent in the commercial world, prospective bidders for the supply of seed as reported in HORTICULTURE on page 460 of the issue of April 7, are being advised that the Secretary of the Treasury has decided to accept proposals on the various items with the provision

that contractors will not be required to deliver more than 20 per cent. over and above the figures named as representing the purchases during the corresponding period of 1916.

PIN MONEY MUSHROOM SPAWN

8 lb. for \$1.00

Directions Included

WM. ELLIOTT & SONS
42 Vesey St., New York

BULB STOCK

Dwarf Double Pearl Tuberoses

Special prices on application.

J. M. THORBURN & CO.

53 Barclay Street
NEW YORK CITY

KELWAY & SON

SPECIALIZE IN

SEEDS

(personally selected strains)

WHOLESALE ONLY

Write for Special Prices, Spot or
Forward

Only Address, LANGPORT, Eng.

LET US QUOTE YOU PRICES

"A B C BRAND"

Lilium Giganteum Rubrum
Album Auratum

AMERICAN BULB CO.

172 No. Wabash Ave., - - Chicago

J. BOLGIANO & SON

**Careful Seed Growers For
99 Years**

Send for Our 1917 Wholesale Prices
To Florists and Market Gardeners

BALTIMORE, MD.

ORDER NOW

ASPARAGUS PLUMOSUS NANUS SEED, greenhouse grown, \$3.50 per 1000, \$15.00 per 5000, \$27.50 per 10,000; Lath-house grown Seed, \$2.00 per 1000, \$9.00 per 5000, \$17.50 per 10,000. Asparagus Sprengeri Seed, 75c. per 1000, \$3.00 per 5000.

S. S. SKIDELSKY & CO.

1004 Lincoln Bldg. Philadelphia, Pa.

My **WINTER-ORCHID-FLOWERING SWEET PEA SEED** have again received the highest honors by the New York and St. Louis flower shows. Over 8000 commercial growers are more than satisfied. If you are not already our customer, send your address and we will mail you our new price list in May or June. It will contain many splendid Novelties.

ANT. C. ZVOLANEK

Sweet Pea Ranch Lompoc, Cal.

ROBERT DYSART

CERTIFIED PUBLIC ACCOUNTANT

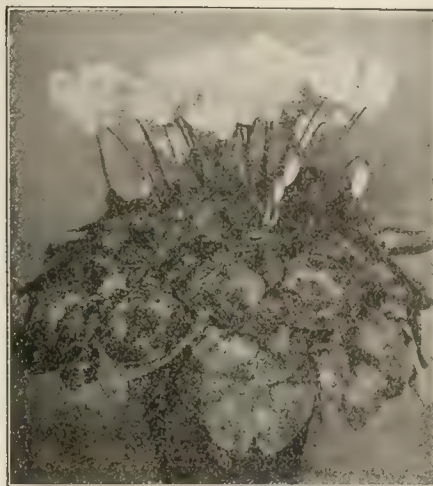
Simple methods of correct accounting
especially adapted for florists' use.

BOOKS BALANCED AND ADJUSTED.

40 STATE ST. BOSTON

Telephone Main 55.

FARQUHAR'S GOLD MEDAL



CYCLAMEN

Awarded the Gold Medal of the Massachusetts Horticultural Society.

Strong plants in 2 1/4 inch pots, for delivery in April.

\$10.00 per 100

R. & J. FARQUHAR & CO., Boston, Mass.

LEONARD'S SEEDS

and SEED SERVICE

FOR SALE BY

LEONARD SEED COMPANY, Chicago, Ill.

LILIUM GIGANTEUM

NEW CROP NOW READY.

	Per 100	Per 1000
7 to 9 in. (300 bulbs to case)...	\$5.50	\$50.00
8 to 9 in. (250 bulbs to case)...	7.00	65.00
8 to 10 in. (225 bulbs to case)...	9.00	80.00
9 to 10 in. (200 bulbs to case)...	10.00	95.00

A. HENDERSON & CO.

211 N. State St., Chicago.

Burpee's Seeds
PHILADELPHIA

**BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT.**

THOMAS J. GREY COMPANY

SEEDS, BULBS AND IMPLEMENTS
WHOLESALE AND RETAIL.

Reselected Strains in Seeds.
Improved styles in Implements.
Catalogue upon application.

16 So. Market Street
BOSTON, MASS

BURNETT BROTHERS

Importers and Growers of

SEEDS, BULBS, PLANTS, &c.

98 Chambers Street, New York

ROMAN J. IRWIN

108 West 28th St., NEW YORK

SPECIAL OFFER

LILIUM FORMOSUM

8/11, 225 to a case.....	\$80.00 per 1000
9/10, 200 to a case.....	85.00 per 1000
11/13, 100 to a case.....	15.00 per case
LILIUM FORMOSUM—Black Stem	
8/10, 200 to a case.....	\$80.00 per 1000
9/10, 180 to a case.....	90.00 per 1000
11/13, 100 to a case.....	16.00 per case

Write for Complete Stock Circular.
SATISFACTION GUARANTEED.

ORDER NOW

New crop flower and vegetable seeds.
Begonia and Gladiolus Bulbs. 1917
Catalogue on application.

JOSEPH BRECK & SONS' CORP.

47-54 North Market St., Boston, Mass.

W. E. MARSHALL & CO.
SEEDS, PLANTS AND BULBS
Horticultural Sundries

166 W. 23rd St., NEW YORK

GARDEN SEED

BET, CARROT, PARSNIP, RADISH and
GARDEN PEA SEED in variety; also other
items of the short crop of this past season,
as well as a full line of Garden Seeds, will
be quoted you upon application to

S. D. WOODRUFF & SONS

82 Dey St., NEW YORK and ORANGE, CONN

ALEX. McCONNELL

611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

*Cost of Cabling Foreign Deliveries
Must be prepaid*

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.

Penn
The Florist

"The Telegraph Florist"

Member of Florists' Telegraph Delivery

124 TREMONT ST.
BOSTON

FOR

KANSAS CITY

Transfer Your Orders to

SAMUEL MURRAY

1017 Grand Avenue

Members Florists' Telegraph Delivery

Orders for NEW YORK.
Write or Phone to

MAX SCHLING

22 West 59th St.

Adjoining Plaza Hotel

Best Florists in the States as
References.

EUROPEAN ORDERS EXECUTED

Members of the Florists'
Telegraph Delivery.

Established 1874

DARDS

FLORIST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City
(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address. Dardsflor.

DAVID CLARKE'S SONS

Deliver orders from any part of the country to

New York City

Write or Telegraph

2139-2141 Broadway, - New York
Telephone 1553-1555 Columbus

Of Interest to Retail Florists

NEW FLOWER STORES.

Jeannette, Pa.—A. E. Ernette.

Anna, Ill.—Roscoe Grear, Keith Building.

Long Beach, N. Y.—Charles Webber of Lynbrook, N. Y.

Salamanca, N. Y.—E. H. Summerfield, 57 Main street.

Falmouth, Mass.—Nicol, the Florist, Main street, re-opening.

Birmingham, Ala.—Elmwood Floral & Nursery Co., Tutwiler Hotel.

Chicago, Ill.—John A. Huebner, removing to 153 N. Wabash avenue.

Portland, Ore.—Fifth street Flower Shop, J. S. York, proprietor, 184 Fifth street.

Galesburg, Ill.—I. L. Pillsbury, succeeding Mr. Buesh as proprietor of the Quality Flower Store.

NEWS NOTES.

Leominster, Mass.—Biagio Romano has purchased Mrs. Laura A. Bruce's greenhouse on Winter street.

Petoskey, Mich.—The greenhouses and business of the Petoskey Floral Company have been purchased by John H. Hart.

Easthampton, Mass.—G. H. McIntyre has purchased a greenhouse 26x150 in Northampton, and will remove it to his place near Stone Path Lane.

New York—A store in the new building being erected on Madison avenue between 47th and 48th streets has been leased to A. Warendorff for ten years at a total rental of \$75,000.

Port Clinton, O.—Christopher J. Neiman, nurseryman, has had an operation on his left forefinger which brought to light a heavy rose thorn, over a quarter of an inch in length, which had been in the finger for over two years.

PERSONAL.

Miss Helen Antoinette, daughter of Charles Millang, was married at Bay-side, N. Y., on Thursday, April 19, to Mr. T. C. Winter.

George D. Gibbs, who has been for the past three years landscape gardener for George B. McCallum, Northampton, Mass., and did the work on his Paradise road estate, has resigned to engage in business for himself.

Write or 'Phone

F. H. WEBER'S

**Modern Flower Shop for
Artistic and Special Work**

N. E. Corner of Taylor and Olive

ST. LOUIS, MO.

M. F. T. D.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

**Artistic Designs . . .
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.



GUDE BROS. CO.
WASHINGTON, D. C.

Member Florists Telegraph Delivery

IN THE National Capital

At your service to deliver Flowers or Designs on Order by Telegraph or otherwise. Prompt Reliable Service.

GEORGE H. COOKE

Connecticut Ave. and L St.
WASHINGTON, D. C.

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

Members Florists' Telegraph Delivery

G. E. M. STUMPP

761 Fifth Ave.

NEW YORK CITY

Member Florists' Telegraph Delivery Asso.

YOUNG & NUGENT

42 West 28 Street

New York

Members Florists' Telegraph Delivery

A. T. BUNYARD

NEW YORK

413 Madison Avenue at 48th Street.
Also Newport, R. I.

We Guarantee Satisfaction

MEMBER F. T. D. A.

CHICAGO Send Your Orders to WILLIAM J. SMYTH

Member Florists' Telegraph
Delivery Association

Michigan Ave. at 31st Street

Prompt Auto Delivery
Service

THOS. F. GALVIN
INC.
NEW YORK 561 Fifth Ave.
Vanderbilt Hotel
BOSTON 1 Park Street
799 Boylston Street
Deliveries to Steamers and all Eastern Ports

CLEVELAND
A. GRAHAM & SON
5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

Orders Filled Day or Night for
CLEVELAND
and State of Ohio
Complete Stock. Regular discount to Trade.
KNOBLE BROS.
1896 W. 25th St., Cleveland, O.
Members Florists' Telegraph Delivery Ass'n.

THE SMITH & FETTERS CO.
735 Euclid Avenue
CLEVELAND, OHIO
Flowers of Every Kind in Season

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1532.
1415 Farnum St.,
OMAHA, NEB.

Rochester, N. Y.
J. B. KELLER SONS,
FLORISTS
25 Clinton Avenue, N.
Rochester Phone 506. Long Dist. Bell Phone 2726
Members Florists' Telegraph Delivery

S. A. ANDERSON
440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
Stock and prompt deliveries in BUFFALO,
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK
Members of Florists' Telegraph Delivery.

HIGH GRADE PLANTS
For Retail Stores a Specialty
ASK FOR LIST
THOMAS ROLAND, Nahant, Mass.
WORCESTER, MASS.
Randall's Flower Shop
HARRY L. RANDALL, Proprietor.
Mention Florists' Telegraph Association

Flowers by Telegraph

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

Albany, N. Y.—H. G. Eyres, 106 State St.
Albany, N. Y.—The Rosery, 23 Steuben St.
Boston—Thos. F. Galvin, 1 Park St.
Boston—Penn the Florist, 124 Tremont St.
Boston—Zinn The Florist, 4 Park St.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Cleveland, O.—Adam Graham & Sons, 5523 Euclid Ave.
Cleveland, O.—Knoble Bros., 1836 W. 25th St.
Cleveland, O.—The Smith & Fettes Co., 735 Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Ave.
Houston, Tex.—Kerr, The Florist.
Kansas City, Mo.—Samuel Murray, 1017 Grand Ave.
Los Angeles, Calif.—Howard & Smith, 853 So. Olive St.
New London, Conn.—Reuter's.
New York—J. H. Small & Sons, 505 Madison Ave., at 52d St.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 611 5th Ave.
New York—Young & Nugent, 42 W. 25th.
New York—A. T. Bunyard, 413 Madison Ave., at 48th St.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Max Schling, 22 W. 59th St.
New York—G. E. M. Stumpff, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.
St. Louis, Mo.—F. H. Weber's, N. E. corner of Taylor and Olive Sts.
St. Paul, Minn.—Holm & Olson, Inc.
Tarrytown-on-Hudson, N. Y.—F. R. Pier-son Co.
Toronto, Can.—J. H. Dunlop, 8-10 West Adelaide St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—George H. Cooke, Connecticut Ave. and L St.
Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop, 22 Pearl St.

Send Telegraph, Telephone or Mail orders
for florist service in this vicinity to

Howard & Smith
853 SO. OLIVE ST.
Los Angeles, Calif.
Every Order sure to receive
prompt and careful attention.

ZINN The Florist
For Quality and Promptness
4 PARK ST. - - BOSTON

REUTER'S Members Florists
Telegraph
Delivery

STORES IN

New London and Norwich, Conn.
and Westerly, R. I.

We cover the territory between
New Haven and Providence

ST. LOUIS, MO.

FRED C. WEBER
4326-28 Olive St.

Member Florists' Telegraph Delivery Association
NOTICE INITIALS. We have one store only

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

The Far-Famed Flowers of
TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP
8-10 West Adelaide St. - TORONTO, ONT.
ALBANY, N. Y.

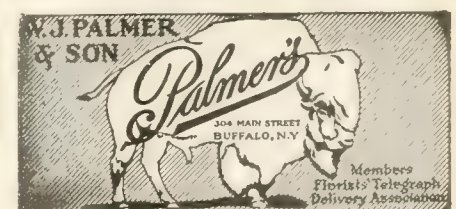
EYRES
Flowers or Design Work
DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER
106 STATE STREET, ALBANY, N. Y.

"THE HOME OF FLOWERS"
The largest cut flower store in America.
Orders for the TWIN CITIES and for all
Northwestern points given prompt at-
tention

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

The Park Floral Co.
J. A. VALENTINE, Pres.

Members Florists' Telegraph Delivery.
DENVER, COLORADO



KERR ORDERS FOR TEXAS
HOUSTON, TEXAS
The Florist Member F. T. D. Association

MOTHERS' DAY PUBLICITY

MOTHERS' DAY PUBLICITY.

The Mothers' Day Publicity Campaign inaugurated by the Chicago Florists' Club is well under way. Thousands of stamps and posters have been purchased by florists from every section of the country, and all orders are being delivered immediately.

F. T. D. Supports This Movement.

The Florists' Telegraph Delivery Association has adopted the Chicago Florists' Club Mothers' Day Stamp and Poster as the official emblem for this campaign.

The F. T. D. has placed an order to supply each and every one of its members with a quantity of Mothers' Day Stamps and Posters, which will be allotted in quantities of 300 stamps and 2 posters, and 500 stamps and 4 posters, in proportion to the annual dues paid by each member.

Should any F. T. D. florist desire more stamps and posters than allotted by the F. T. D., same may be obtained by writing immediately to the Chairman of the Publicity Committee, F. Lautenschlager, 440 W. Erie St., Chicago, Ill.

Proceeds to be Devoted to the Purchase of a Full Page Advertisement in One of the Leading Magazines.

As stated previously, the profits derived from this campaign will be devoted to the purchase of a full page advertisement in a national publication which is estimated will be read by over five million people.

Special Attention Called to F. T. D. Out-of-Town Service.

One of the features of this advertisement will suggest that if your mother is in another city, no matter where you are, or what the distance, step into any flower store and leave your order, and fresh flowers will be delivered to your mother within a few hours through the organized and reliable telegraphic system of the F. T. D. with a guaranteed service. This will help the entire retail florists' trade.

Committee Places Contract for Page Advertisement.

Contract has been let to place this advertisement, and this committee plans to send proof copy of same to each and every one subscribing towards this fund. We suggest that immediately upon receipt, these proofs be displayed in some prominent place in your store. A good plan also would be to secure a copy of the magazine containing this advertisement and exhibit same in your show window. This will combine very well with our Mothers' Day Advertising Campaign.

As yet there are a great many florists who have not subscribed towards this movement, which is surely due to an oversight. This movement is a very big undertaking, and therefore

requires that we dispose of a very large number of stamps and posters. Every florist can help us.

A special appeal is made to those who have not as yet subscribed towards this fund—send your order at once. In case you have no use for the stamps and posters you can at least help by donating a small sum towards the support of this National Advertising Campaign, and in consideration for same we will send you one of the proofs also—this will help all concerned.

Special Notice to Every Florist

Start putting Mothers' Day stamps on all correspondence, packages, etc., leaving your shop.

Thanking you again for helping to make this the greatest and biggest success for Mothers' Day publicity, we remain,

Sincerely yours,

CHICAGO FLORISTS' CLUB PUBLICITY COMMITTEE.

F. LAUTENSCHLAGER, Chairman.

TO THE FLORISTS OF AMERICA

You are aware of the great benefits which every florist has derived from the establishment of Mothers' Day.

Last year the Board of Directors of the S. A. F. appealed for subscriptions to a fund to be placed at the disposal of the International Mothers' Day Association of which Miss Anna Jarvis, the originator of Mothers' Day, is the head. There was a very liberal response from a few of the more prominent members in the trade, but this appeal was not responded to as generally as it should have been. This year it is hoped that every one who benefits from the sale of flowers or accessories for Mothers' Day will evidence their appreciation of what has already been done and the big possibilities that Miss Jarvis has opened to the florists' trade by subscribing to this fund promptly.

We owe Miss Jarvis a great deal, as the Mothers' Day sale of flowers bids fair to surpass any other day in the year. Her work now is mainly to perpetuate and get Mothers' Day thoroughly established. Miss Jarvis has devoted her entire time and funds in the effort to make Mothers' Day universally recognized and to perpetuate it for all time. Miss Jarvis, by reason of being the originator of Mothers' Day, is in a position to command more publicity for Mothers' Day than money can buy, and it is for this reason that you should do your share, whether small or large, to help this united effort for a fund that will get results.

Subscription blanks have been sent to you which cover a period of three years. Kindly write in same the amount that you feel that you can give, sign and return to Mr. John Young, Secretary, 53 W. 28th St., New York, with check for the first year. If for any reason you do not want to subscribe for this period, you may cross

out and send your subscription for the current year only. DO THIS NOW, as the committee desires to get as early results as possible, and if a sufficient fund is realized, the Mothers' Day committee has in mind a publicity campaign which will help eliminate some of the undesirable features which are experienced in the sale of flowers for Mothers' Day.

Your prompt attention to this will be greatly appreciated.

Yours very truly,

MOTHERS' DAY COMMITTEES S. A. F.

Olof J. Olson, St. Paul, Minn., chairman; Edward J. Fancourt, Phila., Pa.; Karl P. Baum, Knoxville, Tenn.; Henry Greve, Dallas, Tex.; C. W. Eichling, New Orleans, La.; Chas. P. Mueller, Wichita, Kans.; Chas. J. Graham, Cleveland, O.; R. E. Schiller, Chicago, Ill.; R. H. Holton, Milwaukee, Wis.; Irwin Bertermann, Indianapolis, Ind.

BOSTON.

Mayor Curley will retain an attorney for any person willing to contest in court the right of the police to arrest persons for working in gardens on Sunday. The mayor also is making every effort to have the Legislature repeal the old "blue law" before next Sunday. Governor McCall will favor legislation, if it is needed, to allow certain forms of gardening on Sundays. He is still of the opinion, however, that the courts will hold that gardening work on Sunday in the present conditions of war and high prices, is a work of "necessity" within the meaning of the old "Blue Laws," and as such is excepted from the provisions.

The Brookline public safety committee appointed Daniel G. Lacy supervisor of food products and conservation, and turned over to him and to a committee he appointed the work of the sub-committee on food conservation. Mr. Lacy is superintendent of the Brookline forestry department. His assistants, all expert gardeners, are William C. Rust of Mrs. Weld's estate, Duncan Finlayson of the Larz Anderson estate, George N. Barrie of the Ernest B. Dane estate, Basil Noyes of Mrs. John M. Longyear's estate, William Kennedy of the metropolitan water works, William Thatcher of Mrs. J. L. Gardner's estate, Nay Smith of E. C. Fletcher's estate, Patrick Burke of Mrs. A. Blake's estate, Martin Sullivan of William Whitman's estate, William N. Craig of Faulkner Farm (Mrs. Brandegee's estate), and Frederick C. Palmer, florist. The town of Brookline will plow, harrow, plant and fertilize the plots, and the cost will be borne by those who do the gardening, for all the crops they raise will be theirs. The cost of thus preparing the land will probably be under \$10 an acre.

AFTER EASTER

Weddings — Mothers' Day — Memorial Day

Fill up your Show Cases and Shelves with another nice stock of Bayersdorfer Baskets and other Seasonable Supplies. We have splendid novelties and all the standard goods in endless variety, Home Manufacture and Imported.

SEND FOR CATALOGUE AND PRICES

and see how much you can do with a little money when you go straight to headquarters—*The Florists' Supply House of America.*

H. BAYERSDORFER & CO.

Manufacturers and
Importers

1129 Arch Street, PHILADELPHIA, PA.

Write for
Catalogue

NEWS ITEMS FROM EVERYWHERE

CHICAGO.

A. L. Glaser of Des Moines, Iowa, whose obituary appeared in last week's issue, was a frequent visitor to this market for many years and he will be missed.

The committee appointed by the Chicago Florists' Club to try and make arrangements for coal for next year, have the matter in hand but so far have reached nothing definite.

Joe Eringe has the sympathy of the trade in the loss of his father, whose death occurred Friday, April 20th. His employers, Zech & Mann, and his fellow workers sent many handsome floral tokens.

After four months of "daily performance" the greenhouse grown daffodil is about to retire for a time. This is probably the longest run this flower has made in anything like such quantity and its disappearance will not be regretted by the carnation growers.

M. Bloy was calling on the trade last week on his way home to Detroit after spending a winter in California. Mr. Bloy says it is the first time in many years that he has not been actively in the rush of Easter week and enjoyed being an onlooker this year, seeing it from another angle in Denver, Colo.

The shortage in certain plant foods is attracting the attention of large dealers in other lines, and the possible advantages of taking up the handling of commercial fertilizers is appealing to them. One of Chicago's large mail order houses has just invested one million dollars in such a department.

The posterettes offered by the Chicago Florists' Club in the interest of flower sales for Mothers' Day are being secured by local florists, who have not forgotten what a stimulus the

same kind of advertising was to St. Valentine's Day, doing much toward making that the best day of its kind on record. Mothers' Day needs only intelligent pushing to make it an equal success, and the florists are going after it.

A. M. Terrill of Calgary, Alberta, Can., visited Chicago last week. He reports trade in the northern city as having been very good all the past year. Mr. Terrill says the first year of the great war had a marked and depressing effect on the florists' business, but that this year the big wheat crop and the abnormally high prices they brought, has tended to boom business, notwithstanding the absence of the young men who have gone to war.

PHILADELPHIA.

Dr. Lane is around again. This will be pleasant news for his many friends in the horticultural world. As previously reported in these columns the doctor went under an operation for appendicitis about six weeks ago.

J. Horace Macfarland of Harrisburg gave a lecture on roses before the Penna Horticultural Society on April 18th. The meeting was attended by about 120 members, mostly ladies, and was very much enjoyed, being not only instructive but entertaining and in Mr. Macfarland's very best style.

Stephen Mortensen, Southampton, one of our most noted rose growers, is about completing a new addition to his extensive establishment 60'x275' of the latest Lord & Burnham construction. A few years ago a half acre of new glass was considered news. Today it is hardly worth mentioning. But Steve is a progressive and tries out all the new roses, so we love to mention him when we get a chance.

ST. LOUIS.

J. J. Beneke has suffered a relapse. He caught cold while attending the Florists' Club meeting in the county. It is sincerely hoped he will have a speedy recovery.

Walter J. Young of C. Young & Sons was married Saturday morning, April 21st, at St. Marguerite's Church to Cletus Ann Peet. The bride carried a muff of white lilac and lily of the valley. Two maids of honor had bouquets of Sunburst and Ophelia. Bridesmaids—Pink Killarney; flower girl—white sweet peas. They go to Chicago and other cities for a honeymoon. Walter belongs to Battery A and has recently returned from the border.

PITTSBURGH.

The advice given by George W. Burke, superintendent of the Bureau of Parks, that owners of lawn and street trees and shrubbery consult with his office before allowing a tree pruner to touch the growth, is being followed by many persons who have read his counsel in the daily papers. James L. Grimes, foreman of the Tree Division and former city forester; Robert Foley, foreman of Riverview Park; William Dole, of the Schenley Park nursery, and Charles Gettenbough, of the Highland Park nursery, have been busy inspecting trees and shrubbery and advising how they should be pruned.

A SINCERE COMPLIMENT.

Gentlemen:

I am a subscriber to more florist papers than I have money to pay for, but really you are so necessary I could not give you up. Enclosed please find small check for \$2.00.

Respectfully,

N. H.

J. D.

BEAUTIES

as we can furnish you give satisfaction
and at our price is profitable stock
for you to handle.

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Wholesale Florists

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PHILADELPHIA, PA.

To Cut Flower Growers and Retail Florists

IF YOU

want to find a market for your
product

want a regular or special supply
of the product of the best
growers

Consult the Advertisements on
these Wholesale Flower Pages

The Advertisers Represented Here are the Leading
Concerns in the Wholesale Flower Trade

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1619 - 21 Ranstead St., Philadelphia, Pa.

CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

Philadelphia Wholesale Florist Exchange

ROSES OUR SPECIALTY

A trial order will convince you
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Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$2.00. 50,000...\$8.75. Sample free.
For sale by dealers.

E. G. HILL CO.

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RICHHMOND, IND.

Please mention Horticulture when writing.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

264 RANDOLPH ST., DETROIT, MICH.

The House for Quality and Service

ZECH & MANN

We are Wholesale Florists Doing
a Strictly Wholesale Business

30 East Randolph Street, CHICAGO



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Supply of Best Cut Flowers all the Year Around
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If interested, send us your name and address for our weekly price list

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Daily consignments from
leading growers

Full line of Florists'
Supplies

Write for quotations before
ordering elsewhere

262B DEVONSHIRE ST., BOSTON, MASS.
Telephone, Main 6267-6268

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON April 26		ST. LOUIS April 23		PHILA. April 23	
Roses						
Am. Beauty, Special..	20.00	to 25.00	30.00	to 40.00	35.00	to 40.00
“ “ Fancy and Extra..	10.00	to 15.00	20.00	to 30.00	20.00	to 30.00
“ “ No. 1 and culls..	3.00	to 10.00	3.00	to 6.00	4.00	to 15.00
Russell, Euler, Mock..	2.00	to 8.00	5.00	to 15.00	4.00	to 20.00
Hadley.....	2.00	to 10.00	5.00	to 10.00	4.00	to 10.00
Arenberg, Hoosier Beauty.....	1.00	to 6.00	.....	to	4.00	to 8.00
Ward.....	1.00	to 6.00	2.00	to 4.00	3.00	to 6.00
Killarney, Radiance, Taft.....	1.00	to 6.00	2.00	to 4.00	1.00	to 8.00
Ophelia, Sunburst, Hillingdon.....	1.00	to 8.00	2.00	to 6.00	3.00	to 10.00
Key.....	1.00	to 6.00	.....	to	4.00	to 10.00
Carnations	1.00	to 2.00	1.00	to 1.50	1.00	to 3.00
Cattleyas	30.00	to 75.00	.....	to 50.00	40.00	to 75.00
Dendrobium formosum.....	.....	to 50.00	.....	to .....	.....	to
Lilies, Longiflorum	3.00	to 6.00	8.00	to 10.00	6.00	to 8.00
Lilies, Speciosum	5.00	to 6.00	.....	to .....	.....	to
Callas	4.00	to 6.00	8.00	to 10.00	8.00	to 10.00
Lily of the Valley	6.00	to 6.00	5.00	to 6.00	4.00	to 6.00
Snappedragon.....	.....	to 2.00	.....	to	3.00	to 12.50
Daffodils.....	.50	to 1.00	.50	to 1.00	1.00	to 2.00
Narcissi, Paper White.....	.....	to .....	.....	to .....	.....	to
Roman Hyacinths.....	.....	to .....	.....	to .....	.....	to
Freesia.....	.....	to .....	.....	to .....	.....	to
Tulips	1.00	to 2.00	2.00	to 4.00	1.00	to 3.00
Calendulas	1.00	to 2.00	1.00	to 2.00	1.00	to 3.00
Sweet Peas.....	.25	to .75	.20	to .40	.35	to 1.00
Violets.....	.....	to .60	.....	to .....	.....	to
Marguerites	1.00	to 2.00	.....	to .....	.50	to 1.50
Gardenias	2.00	to 35.00	.....	to	3.00	to 15.00
Adiantum	1.00	to 1.50	.....	to 1.00	1.00	to 1.50
Smilax	12.00	to 20.00	.....	to 12.50	20.00	to 25.00
Asparagus Plumosus, & Spreng. (100 Bchs.).....	25.00	to 35.00	25.00	to 50.00	25.00	to 50.00

WILLIAM F. KASTING Co. Wholesale Florists

568 570 WASHINGTON STREET - BUFFALO, N. Y.

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER of

CUT FLOWERS



ROSE SPECIALS

For week of April 30th, we offer two very attractive Rose Specials

ROSE SPECIAL NO. 1

In lots of 200 or over, long stems, our selection as to color and variety, at \$6.00 per 100.

ROSE SPECIAL NO. 2

In lots of 200 or over, medium stems, our selection, as to color and variety, at \$3.00 per 100.

S. S. PENNOCK-MEEHAN CO.

THE Wholesale Florists of PHILADELPHIA

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117 W. 28th St.

PHILADELPHIA
1608-1620 Ludlow St.

BALTIMORE
Franklin & St. Paul Sts.

WASHINGTON
1216 H St., N. W.

Flower Market Reports

BOSTON We seem to have struck squarely into the season of low spring prices without the customary accompaniment of low spring quality. There has been no period of enervating heat thus far which probably accounts for the high quality maintained in so large a proportion of the flower receipts. The conditions here as above outlined are not much different from those prevalent in important markets elsewhere, judging from the reports received. Things which are most sluggish are lilies and bulb stock generally, roses, carnations, pansies, snapdragons and sweet peas. Snapdragons have been a drag all through the spring season although they are in most cases very fine. Street fakir trade has "come into its own" for the past two weeks.

CHICAGO Trade is very satisfactory. Even with the check which a return to cold weather has put upon the incoming stock, there is far too much to meet the demand. Very fine American Beauty roses are offered and the old question of how to get Beauties to bloom when they are wanted and not when the season is over, is again revived. Wholesalers say there seems to be a distinct time in the year when Beauties are wanted and too often that proves to be the time when they cannot be had, as has been the case this year. Darwin tulips are still with us and are fine but daffodils are about gone. Calendulas have been constantly on the counters for months and the stock offered today is very large. Snapdragons are hard to move at prices growers desire. All kinds of roses are much in evidence and the buyer with the persuasive tongue can get away with an armful for a small sum of money. The carnation grower hopes, with Mothers' Day just ahead, to do something to speed up the sales that have dragged discouragingly all

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI April 23	CHICAGO April 23	BUFFALO April 23	PITTSBURG April 16
Roses				
Am. Beauty, Special.....	25.00 to 35.00	20.00 to 25.00	20.00 to 25.00	30.00 to 40.00
" " Fancy and Extra.....	20.00 to 25.00	15.00 to 20.00	15.00 to 20.00	20.00 to 25.00
" " No. 1 and culls.....	5.00 to 15.00	4.00 to 6.00	3.00 to 5.00	10.00 to 15.00
Russell, Euler, Mock.....	4.00 to 12.50	3.00 to 25.00	8.00 to 12.00	6.00 to 15.00
Hadley.....	..... to .....	..... to 12.00	4.00 to 8.00	..... to
Arenberg, Hoosier Beauty.....	4.00 to 10.00	2.00 to 8.00	3.00 to 8.00	4.00 to 12.00
Ward.....	3.00 to 8.00	2.00 to 8.00	2.00 to 6.00	4.00 to 10.00
Killarney, Radiance, Taft.....	3.00 to 8.00	2.00 to 8.00	3.00 to 6.00	4.00 to 10.00
Ophelia, Sunburst, Hillingdon.....	4.00 to 10.00	2.00 to 10.00	3.00 to 6.00	4.00 to 12.00
Key.....	..... to .....	..... to 10.00	8.00 to 10.00	..... to
Carnations	2.00 to 3.00	1.50 to 3.00	1.00 to 2.50	2.00 to 4.00
Cattleyas	50.00 to 60.00	75.00 to 100.00	40.00 to 50.00	60.00 to 75.00
Dendrobium formosum.....	..... to .....	..... to .....	..... to	20.00 to 30.00
Lilies, Longiflorum	8.00 to 10.00	8.00 to 12.00	8.00 to 10.00	6.00 to 10.00
Lilies, Speciosum.....	..... to .....	..... to	3.00 to 4.00	..... to
Callas	6.00 to 8.00	6.00 to 10.00	6.00 to 10.00	..... to
Lily of the Valley.....	..... to 6.00	4.00 to 6.00	6.00 to 7.00	4.00 to 6.00
Snapdragon	6.00 to 10.00	6.00 to 10.00	4.00 to 8.00	2.00 to 6.00
Daffodils.....	..... to 2.00	..... to	1.00 to 2.00	..... to
Narcissi, Paper White.....	..... to .....	..... to	1.00 to 2.00	..... to
Roman Hyacinths.....	..... to .....	..... to	1.00 to 2.00	..... to
Freesia	1.00 to 2.00	..... to	2.00 to 3.00	..... to
Tulips	2.00 to 3.00	3.00 to 4.00	1.00 to 2.00	..... to
Calendulas	2.00 to 3.00	..... to 2.00	1.00 to 3.00	2.00 to 4.00
Sweet Peas.....	.50 to .75	.50 to 1.00	.50 to 1.50	.50 to 2.00
Violets.....	..... to .....	..... to .....	.30 to .50	.25 to .75
Marguerites.....	..... to .75	.50 to 1.00	1.00 to 1.50	2.00 to 3.00
Gardenias.....	..... to	15.00 to 20.00	10.00 to 15.00	..... to
Adiantum.....	..... to 1.00	..... to 1.00	..... to 1.00	1.00 to 1.25
Smilax.....	..... to 15.00	15.00 to 25.00	..... to 15.00	15.00 to 20.00
Asparagus Plu. & Spren. (100 Bhs.)	25.00 to 50.00	25.00 to 50.00	25.00 to 35.00	20.00 to 50.00

the season through. There are sweet peas enough and to spare. In fact there is an excess of almost everything except cattleyas and lily of the valley. All the wholesale houses report many inquiries for flowers for Mothers' Day. Though carnations are in the lead, all kinds of flowers will undoubtedly be used as was the case last year.

Since Easter the New York flower market has shown very little in the way of enlightenment as to how the spring opening might finally de-

velop. Dealers and growers alike, realizing the unusual conditions which confront us, are solicitously "watching the boards" from day to day and for so far, there is nothing in sight to indicate any material change from the drift which set in with the first of April, downward tending and continuing so with vexatious regularity. As compared with previous years the values received for standard stock show up quite favorably, we think, but the cost of producing the goods has probably been somewhat heavier. The quality of the material has been the

(Continued on page 565)



IN CHICAGO

For the Retailer or for the Grower
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J. E. POLLWORTH, Sec'y and Gen'l Mgr

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Wholesale Florist
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PHONE 608 FARRAGUT NEW YORK
609

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Laurel, Hemlock, all Decorative Evergreens.
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SAVE TIME AND MONEY BY SENDING YOUR ORDERS TO US
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Centrally Located, The Hub of the Flower Market Section

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HEADQUARTERS for the entire output of the

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PAUL MECONI — Wholesale Florist — NEW YORK

Telephone Nos. 3864 and 8364 Madison Square

57 WEST 26th STREET

A GOLD MEDAL is not expected by us for doing our duty by our consignors and customers
We have 22 years' experience behind us

FANCY GRADE ORCHIDS, SEPTEMBER MORN, AMERICAN BEAUTY, PRIMA
DONNA AND ALL OTHER ROSES, LILIES, CARNATIONS, VIOLETS,
ASPARAGUS AND SMILAX and all other Seasonable Flowers.

GUTTMAN & RAYNOR, Inc., Wholesale Florists
101 West 28th Street, NEW YORK
Phones: Farragut 558, 2036 and 2037

NEW YORK QUOTATIONS PER 100. To Dealers Only**ROSES AND CARNATIONS**

	Last Half of Week ending April 21 1917	First Half of Week beginning April 23 1917
American Beauty, Special	20.00 to 25.00	20.00 to 25.00
" " Fancy and Extra	12.00 to 15.00	12.00 to 15.00
" " No. 1 and culls.	4.00 to 8.00	3.00 to 8.00
Russell, Euler, Mock	2.00 to 8.00	1.00 to 8.00
Hadley	3.00 to 25.00	1.00 to 25.00
Arenberg, Hoosier Beauty	1.00 to 6.00	1.00 to 6.00
Ward	1.00 to 6.00	1.00 to 6.00
Killarney, Radiance, Taft	1.00 to 6.00	1.00 to 6.00
Ophelia, Sunburst, Hillingdon	1.00 to 6.00	1.00 to 8.00
Key	1.00 to 8.00	1.00 to 8.00
Carnations	1.00 to 2.00	1.00 to 2.00

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CHOICE CUT FLOWERS
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Telephone—3532-3533 Madison Square

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Methods Fair and Liberal. Relations
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TRAENDLY & SCHENCK

Wholesale Florists
436 6th Avenue, Between 26th and 27th Sts., New York
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WALTER R. SIEBRECHT CO.

Incorporated
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Orchids, Gardenias and Many Unusual
Flowers of Quality
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WHOLESALE FLORISTS
55-57 West 26th Street
Telephones, 13—8510 Madison Square
Consignments Solicited
MAURICE L. GLASS, Treasurer

Flower Market Reports

(Continued from page 563)

best on an average that this market has ever seen. This applies emphatically to the roses. It is a source of delight to anyone to watch the opening up of the crates as they arrive from the many rose growing establishments of Jersey, Long Island and up-state and observe the wonderful finish and uniformity of bud and foliage and the skillful manner of their grading and packing as compared with the methods of a few years back. One cannot resist the conviction that these gems of the growers' skill are well worth all the dealer demands for them. And it goes without saying, in times like the present, that the dealers' existence is a continuous fight with his back to the wall, to hold the line of values from annihilation. Snapdragons of high degree are a feature of the market but they move slowly, as do also the lilies, many of which are of rare size and finish. The low-grade lilies, of which there also are plenty, find no takers. The only violets now coming in are the Gov. Herrick variety, rich purple in color but lacking in other qualities of appeal. There are lots of sweet peas, showing a higher quality than ever before, but they have to be sold at low figures. Lily of the valley is very limited in quantity. Price is established by grade but in no case is the demand very pronounced. Bulbous flowers are not so overwhelmingly abundant but there are still many more tulips and the various narcissi than the market can digest. Spanish iris is everywhere in attractive beauty but far in excess of any requirements. Conditions on all sides, in short, are most favorable to the "push-cart" brand of merchant and these gentlemen simply swam in all parts of the city.

Business continues in depressed condition; warmer weather and much more stock. The demand seems also to have slackened off considerably. Prices generally have been lower, except perhaps on lily of the valley and orchids. Cattleyas have held their own pretty well—some very fine flowers arriving. Oceans of roses, carnations, sweet peas, snapdragon, etc. Some very fine Spanish iris in white, blue and yellow are to be seen.

Asparagus plumosus and Sprengeri has been scarce for several weeks past and still continues so, all through this section. Bulbous products are growing scarce and of more inferior quality each day; but other stock of all kinds is plentiful and of superb quality, lilies and callas especially. Seedsmen are reaping their harvest just now. Indeed, so busy are all, that they cannot stop work to report conditions, other than "better than ever."

Market is somewhat crowded and prices are low in all lines. Carnations are selling at retail 2 doz. for 15 cents, and roses 25 cents per dozen. Sweet peas are crowding in. Out door jonquils are arriving somewhat

(Continued on page 569)

PATRICK WELCH, WHOLESALE FLORIST

262 DEVONSHIRE STREET, BOSTON, MASS.

American Beauties, Orchids, Valley, Carnations. All the novelties in the Cut Flower Market furnished on short notice. Prices quoted on application. No retail orders accepted. Flowers shipped out of Boston on early trains.

STORE OPEN FOR BUSINESS AT 6 A. M. TELEPHONE MAIN 2698.

HERMAN WEISS WHOLESALE FLORIST

Can handle shipments of growers' product satisfactorily. Would like to hear from Growers of Snapdragons and Sweet Peas, etc., for the New York trade.

106 West 28th St., NEW YORK

Tel. Farragut 3066

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending April 21 1917		First Half of Week beginning April 23 1917	
Cattleyas.....	25.00	to 60.00	25.00	to 50.00
Dendrobium formosum.....	.....	to 50.00	.....	to 50.00
Lilies, Longiflorum.....	4.00	to 6.00	4.00	to 6.00
Lilies, Speciosum.....	2.00	to 6.00	2.00	to 6.00
Callas.....	3.00	to 6.00	3.00	to 6.00
Lily of the Valley.....	3.00	to 8.00	3.00	to 8.00
Snapdragons.....	1.00	to 5.00	1.00	to 5.00
Daffodils.....	1.00	to 1.50	.50	to 1.50
Spanish Iris.....	1.00	to 3.00	1.00	to 3.00
Roman Hyacinths.....	.....	to .....	.....	to
Freesia.....	.....	to .....	.....	to
Tulips.....	.50	to 2.00	.50	to 1.00
Calendulas.....	1.00	to 2.00	1.00	to 2.00
Sweet Peas.....	.15	to 1.00	.15	to .75
Violets.....	.15	to .40	.15	to .40
Marguerites.....	1.00	to 2.00	1.00	to 2.00
Gardenias.....	3.00	to 35.00	2.00	to 25.00
Adiantum.....	.50	to 1.00	.50	to 1.00
Smilax.....	15.00	to 25.00	15.00	to 25.00
Asparagus Plumosus, & Sprengeri (100 bunches).....	15.00	to 35.00	15.00	to 35.00

J. K. ALLEN, WHOLESALE COMMISSION FLORIST

Always Ready to Receive Consignments and Can Market Them Satisfactorily. Wanted Specially, Early Peonies, Gladioli, etc., for Spring Trade.

A Clean Record For Thirty Years

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Telephones: 167 and 3058 Farragut

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115 WEST 25TH STREET
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EVERYTHING IN CUT FLOWERS
CONSIGNMENTS SOLICITED

H. M. ROBINSON & CO.

BOSTON'S FOREMOST

Wholesale and Commission Florists

32 Otis Street, 2 Winthrop Square
BOSTON, MASS.

Telephone 2618-2617-2616, Main.

Send Flower Consignments to

L. B. NASON Wholesale Florist

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Shipping Orders Carefully Filled.

Correspondence solicited.
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HOME GROWN ASPARAGUS

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IN ANY QUANTITY

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Flowers Sold on Commission

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Good Stock Solicited

111 W. 28th St., - NEW YORK

Established 1888

Tel. 551 Farragut

GUNTHER BROS.

Wholesale Commission Florists

110 West 28th St., New York

We Solicit Consignments of New
England Grown Novelties.

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ORCHIDS

Cut Flowers of All the Leading Varieties
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THOMAS YOUNG, Jr., Proprietor

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Also 57 West 28th St., NEW YORK.

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We manufacture all our
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Advertisements under this head, one cent a word. Initials count as words.

Display Advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

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For page see List of Advertisers.

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Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

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Henry A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

ASPARAGUS SEED

S. S. Skidelsky & Co., Philadelphia, Pa.
Plumous Nanus.
For page see List of Advertisers.

ASPARAGUS

Asparagus Plumosus Seedlings, \$1.00 per 100, \$5.00 per 1000. Ready May 1st. COL-LINGDALE GREENHOUSES, Collingdale, Pa.

ASTERS

Henderson's Invincible, a fine Aster for cutting and trade pullers for your customers' own planting; separate colors, strong, transplanted plants, prompt shipment; \$5.00 per 1000. Cash. BRILL CELERY GARDENS, Kalamazoo, Mich.

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August Rolker & Sons, New York City.
For page see List of Advertisers.

BASKETS

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

BEGONIAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

NOW READY

Begonia Glory of Cincinnati
" Gloire de Lorraine
" Mellor
" Mrs. J. A. Peterson

Cyclamen Seedlings, transplanted, 4 to 8 leaves, ready for 3-inch pots. Price List on application.

J. A. PETERSON & SONS,
Westwood, Cincinnati, O.

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R. Vincent, Jr. & Sons Co.
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For page see List of Advertisers.

BEDDING PLANTS—Continued

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

2,000 stock in 2¼ in. pots, 500 Salvia, also Verbenas in 2¼ in. pots, \$2.00 per 100; also a variety of other seedlings. GEO. W. MARSHALL, Medfield, Mass.

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Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Co., North Tonawanda, N. Y.
"King Ideal" Boiler.

For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

Hitchings & Co., New York City.

BOXES—OUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

BOX TREES

August Rolker & Sons, New York City.
For page see List of Advertisers.

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J. M. Thorburn & Co., New York City.
Lilium Harrisii.

For page see List of Advertisers.

Ralph M. Ward & Co., New York City.
French, Japan, Holland and Cold Storage Bulbs.

For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

Henry F. Michell Co., Philadelphia, Pa.
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Joseph Breck & Sons Corp., Boston, Mass.
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F. Rynveld & Sons, New York City.
Japanese Lily Bulb.

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W. E. Marshall & Co., New York City.
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Arthur T. Boddington Co., Inc.,
New York City.
Spring Bulbs.

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C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK BRANCH, 8-10 Bridge St.

CANNAS

Arthur T. Boddington Co., Inc., New York City.
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CARNATIONS

F. Dorner & Sons Co., Lafayette, Ind.
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Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

CARNATION STAPLES

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 1000 for 35c.; 3000 for \$1.00 post-paid. I. L. PILLSBURY, Galesburg, Ill.

CATTLEYA DOWIANA

George Schlegel, Brooklyn, N. Y.
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CHRYSANTHEMUMS

Charles H. Totty, Madison, N. J.
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R. Vincent, Jr. & Sons Co.,
White Marsh, Md.

Pompon Chrysanthemums.
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Elmer D. Smith, Adrian, Mich.
New Chrysanthemum Catalogue.
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Wood, Bros., Fishkill, N. Y.
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DAHLIAS

Peony Dahlia Mrs. Frederick Grinnell.
Stock For Sale.
JOHN P. ROONEY, New Bedford, Mass.

ORDERS BOOKED ANY TIME

For Fall or Spring delivery. Wholesale and Retail. Send for Catalogue. NORTHBORO DAHLIA & GLADIOLUS GARDENS, J. L. Moore, Prop., Northboro, Mass.

NEW PAEONY DAHLIA

John Wanamaker, Newest, Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to PEACOCK DAHLIA FARMS, Berlin, N. J.

Dahlias Lindhurst, Red Hussar, Arabelle, strong divisions, \$2.00 per 100. Cash. HENRY SCHAUMBERG, Hammonton, N. Y.

DECORATIVE PLANTS

Julius Roehrs Co., Rutherford, N. J.
Choice Flowering and Foliage Plants.
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Robert Craig Co., Philadelphia, Pa.
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Bobbink & Atkins, Rutherford, N. J.
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Thomas Roland, Nahant, Mass.
High Grade Plants for Retail Florists.
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A. M. Davenport, Watertown, Mass.
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A. Leuthy & Co., Roslindale, Mass.
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A. L. Miller, Jamaica, N. Y.
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Henry A. Dreer, Philadelphia, Pa.
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DRACAENA CANES

McHutchison & Co., New York City.
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FERNS

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Small Ferns for Dishes.
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R. Vincent, Jr., & Sons Co., White Marsh, Maryland.
Boston Ferns.

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F. R. Pierson, Tarrytown, N. Y.
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Scottil Ferns, 2½ in. pots.....\$5.00 per 100
" 3 in. pots..... 3.00 "
Boston " 2½ in. pots..... 5.00 "
ANTON SCHULTHEIS, College Point, N. Y.

FERTILIZERS

Pulverized Manure Co., Chicago, Ill.
Wizard Brand Cattle Manure.
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FLORISTS' SUPPLIES

Reed & Keller, New York City.
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S. S. Pennock-Meehan Co., Philadelphia, Pa.
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H. Bayersdorfer & Co., Philadelphia, Pa.
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Welch Bros. Co., Boston, Mass.
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FUNGICIDES

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Fungine.
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GERANIUMS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
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S. A. Nutt Geraniums, rooted cuttings,
\$1.25 per 100, \$10 per 1000; unrooted cuttings,
75c. per 100, \$6 per 1000. W. E. ALLEN,
185 Exchange St., Leominster, Mass.

GLADIOLI

John Lewis Childs, Flowerfield, L. I., N. Y.
New Catalogue.
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J. M. Thorburn & Co., New York City.
Dwarf Gladiolus.
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Sharp, Partridge & Co., Chicago.
Hot Bed Glass.
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Parshelsky Bros., Inc., Brooklyn, N. Y.
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The Dwell-Kaiser Co., Buffalo, N. Y.
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Greenhouse glass, lowest prices. **JOHN-STON GLASS CO.** Hartford City, Ind.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
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Metropolitan Material Co., Brooklyn, N. Y.
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GOLD FISH

Gold fish, aquarium plants, snails, castles, globes, aquarium, fish goods, nets, etc., wholesale. **FRANKLIN BARRETT, Breeder, 4815 D St., Olney, Philadelphia, Pa.** Large breeding pairs for sale. Send for price list.

GREENHOUSE BUILDING MATERIAL

King Construction Co., N. Tonawanda, N. Y.
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Parshelsky Bros., Inc., Brooklyn, N. Y.
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Gulf Cypress.
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Lord & Burnham Co., New York City.
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GREENHOUSE CONSTRUCTION

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King Channel Gutter.
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J. M. Thorburn & Co., New York City.
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LILY OF THE VALLEY PIPS

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Hohmann's Famous Lily of the Valley Pips.
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LIQUID PUTTY MACHINE

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National Nurseryman Publishing Co., Inc.
Hathboro, Pa.
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NIKOTIANA

Aphine Mfg. Co., Madison, N. J.
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In writing to Advertisers kindly mention Horticulture

NURSERY STOCK

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NUT GROWING

The Nut-Grower, Waycross, Ga.
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ORCHID PLANTS

Beechwood Heights Nurseries,
Bound Brook, N. J.
Importers and Growers of Orchids.
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Julius Roehrs Co., Rutherford, N. J.
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Lager & Hurrell, Summit, N. J.

HASSALL & CO., Orchid Growers and
Raisers, Southgate, London, England. Im-
mense stock of Cattleyas.

PAINTS AND PUTTY

The Dwelle-Kaiser Co., Buffalo, N. Y.
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Metropolitan Material Co., Brooklyn, N. Y.
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PANSY PLANTS

200,000 large, stocky (Sept. transplanted),
field-grown blooming pansy plants, Henry
Mette's strain, all salable stock, satisfaction
guaranteed. \$1.25 per 100, \$11.50 per 1000.
Cash. Prompt shipping.

BRILL CELERY GARDENS,
KALAMAZOO, MICHIGAN.

PETUNIAS

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
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PEONIES

Peonies. The world's greatest collection.
1200 sorts. Send for list. C. BETSCHER,
Canal Dover, O.

Complete manuals on the Peony, Iris and
Phlox. 25 cents each in stamps. C. S.
HARRISON, York, Nebraska.

PECKY CYPRESS BENCHES

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A. T. Stearns Lumber Co., Boston, Mass.
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Shelf Brackets and Pipe Hangers.
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Hybrid Yellow Polyanthus.

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W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
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August Rolker & Sons, New York City.
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ROSES, CANNAS AND SHRUBS.
THE CONARD & JONES COMPANY,
WEST GROVE, PA.

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SEEDS

Carter's Tested Seeds.
Seeds with a Pedigree.
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J. Bolgiano & Son, Baltimore, Md.
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A. T. Boddington Co., Inc., New York City.
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Chas. Schwake & Co., New York City.
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Mitchell's Seed House, Philadelphia, Pa.
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W. Atlee Burpee & Co., Philadelphia, Pa.
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R. & J. Farquhar & Co., Boston, Mass.
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J. M. Thorburn & Co., New York City.
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August Rolker & Sons, New York City.
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Garden Seeds.
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Seeds for the Florist.
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SHELF BRACKETS

Metropolitan Material Co., Brooklyn, N. Y.
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SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. LAGER
& HURRELL, Summit, N. J.

STRAWBERRY PLANTS

Strawberry Plants, \$2.50 per 1000. Cata-
logue free. BASIL PERRY, Georgetown,
Delaware.

SWEET PEA SEED

Ant. C. Zvolanek, Lompoc, Calif.
Gold Medal of Honor Winter Orchid Sweet
Peas.
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VASES

H. Bayersdorfer & Co., Philadelphia, Pa.
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VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

Celery plants, Golden Self Blanching
(French strain), also the grand new Easy
Blanching variety, which is easy to grow;
fine plants, ready for the field, \$2.00 per
1000, or \$8.75 for 5000. Cash. BRILL
CELERY GARDENS, Kalamazoo, Mich.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
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The John A. Evans Co., Richmond, Ind.
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VERMICIDES

Aphine Mfg. Co., Madison, N. J.
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WEED KILLER

Pino-Lyptol Chemical Co., New York.
Pino-Lyptol Weed Killer.
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WIREWORK

Reed & Keller, New York City.
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WILLIAM E. HEILSCHER'S WIRE
WORKS, 264 Randolph St., Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
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Baltimore

The S. S. Pennock-Meehan Co., Franklin
and St. Paul Sts.
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Boston

Welch Bros. Co., 226 Devonshire St.
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Patrick Welch, 262 Devonshire St.
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H. M. Robinson & Co., 32 Otis St. and 2
Winthrop Sq.
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Est. 1765

Inc. 1904

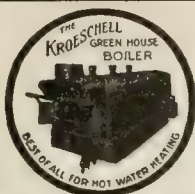
Pot Makers for a
Century and a Half**HEWS****STRONG
RED
POROUS****POTS**World's Largest
ManufacturersStandard, Azalea, Bulb, Orchid, Fern, Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.Write for Catalogue
and Discounts**A. H. HEWS & CO., Inc., Cambridge, Mass.**Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.**WHOLESALE FLORISTS**
BrooklynWm. H. Kuebler, 28 Willoughby St.
For page see List of Advertisers.**Buffalo, N. Y.**William F. Kasting Co., 568-570 Washing-
ton St.
For page see List of Advertisers.**Chicago**Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.J. A. Budlong, 184 North Wabash Ave.
For page see List of Advertisers.Zech & Mann, 30 East Randolph St.
For page see List of Advertisers.Kennicott Bros. Co., 163-65 N. Wabash Ave.
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Randolph St.
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For page see List of Advertisers.Charles Millang, 55 and 57 West 26th St.
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For page see List of Advertisers.J. K. Allen, 118 West 28th St.
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28th St.
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26th and 27th Sts.
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For page see List of Advertisers.John Young & Co., 53 West 28th St.
For page see List of Advertisers.M. C. Ford, 121 West 28th St.
For page see List of Advertisers.United Cut Flower Co., Inc., 111 W. 28th St.
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For page see List of Advertisers.Henry M. Robinson Co., 55-57 W. 28th St.
For page see List of Advertisers.W. R. Siebrecht, 114 West 28th St.
For page see List of Advertisers.Herman Weiss, 106 West 28th St.
For page see List of Advertisers.**DREER'S "Riverton Special" Plant Tub**Manufactured for us exclusively. The best tub ever introduced. The neatest
lightest and cheapest. Painted green, with electric welded hoops. The four largest
sizes have drop handles.

No.	Diam.	Ea.	Doz.	100
10	20 in.	\$1.60	\$17.50	\$145.00
20	18 in.	1.45	15.50	130.00
30	16 in.	1.10	12.25	100.00
40	14 in.	.70	7.75	60.00
50	12 in.	.50	5.50	45.00
60	10 in.	.40	4.40	35.00
70	8 in.	.30	3.50	28.00

HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.**WHOLESALE FLORISTS**
New York—ContinuedJ. J. Coan, 115 West 28th St.
For page see List of Advertisers.Joseph S. Fenrich, 51 West 28th St.
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For page see List of Advertisers.Frank Millang, 55-57 West 26th St.
York City.
For page see List of Advertisers.The Beechwood Heights Nurseries, Thos.
Young, Jr., Prop., 57 West 28th St.
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Ludlow St.
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1615 Ranstead St.
For page see List of Advertisers.**Richmond, Ind.**E. G. Hill Co.
For page see List of Advertisers.**Rochester, N. Y.**George B. Hart, 24 Stone St.
For page see List of Advertisers.**Washington**The S. S. Pennock-Meehan Co., 1216 H St.,
N. W.
For page see List of Advertisers.**New Offers In This Issue****GLADIOLUS.**William Sim, Cliftondale, Mass.
For page see List of Advertisers.**NIEREMBERGIAS.**Henry Schmidt, No. Bergen, N. J.
For page see List of Advertisers.**ROSE SPECIALS.**S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.**SASH OPERATING DEVICE AND
GREENHOUSE FITTINGS.**Advance Co., Richmond, Ind.
For page see List of Advertisers.**TREE SURGERY.**Davey Tree Expert Co., Kent, Ohio.
For page see List of Advertisers.**STANDARD FLOWER
POTS**If your greenhouses are within 500
miles of the Capitol, write us; we can
save you money.**W. H. ERNEST**
29th & M Sts., Washington, D. C.**WANTS, FOR SALE, ETC.**Advertisements in this column
one cent a word. Initials count
as words. Cash with order. All
correspondence addressed "Care
HORTICULTURE" should be sent
to 147 Summer St., Boston.**HELP WANTED**WANTED—A young man with some ex-
perience to work under glass on private
place near New York City. State age,
wages and references. Address "A. A."
care HORTICULTURE.**FOR SALE**FOR SALE—Two windmills, steel skele-
ton type; 400 boxes 14-inch double glass;
quantity wrought iron pipes; boilers; ven-
tilating apparatus and sash; 4 complete
greenhouses, 25 x 175; sell very cheap; re-
move at once. I. SUESSERMAN, 104
Ridgewood Ave., Newark, N. J.FOR SALE—Cheap for want of use, one
6 H. P. Gas Engine and Pump. CHAS.
HOFFMEYER, Carnegie, Pa.**Flower Market Reports**

(Continued from page 565)

water-soaked. Violets are about done.
Lilac has made its appearance. The
market can thus be summed up: the
retailer to a great extent is working
for the grower and the wholesaler at
cut rate prices.Flowers of all kinds
WASHINGTON have been over-
plentiful and prices
were low. The only shortages notice-
able were in orchids, lily of the valley
and single violets. The warm weather
drove the latter off the market and it
was a very difficult matter to fill the
demands. Roses and carnations are
very plentiful. Spring flowers are in
heavy supply with the demand slacken-
ing daily.



If you need a boiler in a hurry telephone or telegraph at our expense

KROESCHELL BOILERS

SEND FOR CATALOG

Kroeschell Bros. Co., 466 W. Erie St., Chicago



GULF CYPRESS GREENHOUSE MATERIALS



Manufactured from clear, air-dried, red gulf cypress stock at our own mill with the most modern machinery. Will mill to your own details. An enormous stock on hand at all times for immediate delivery. We can furnish everything necessary for a complete greenhouse, cut and spliced ready for erection. Send for question blank.

PECKY CYPRESS BENCH LUMBER

We carry in stock 1 inch thickness for the bottoms and sides in all widths and lengths and 2 inch thickness ripped for cross pieces and legs.

Send for circular and prices.

PUT YOUR GREENHOUSE PROBLEMS UP TO US.

We go anywhere in the U. S. to submit plans and prices.

Metropolitan Material Co.
PATENTED GREENHOUSES

1297-1325 Flushing Ave., Brooklyn, N. Y.

WE ARE SPECIALISTS IN GREENHOUSE GLASS PAINTS and PUTTY

IREQUOIS WHITE (Semi-Paste).
Most Perfect White Paint Made.

Be sure to get our estimates.

The DWELLE-KAISER Co.

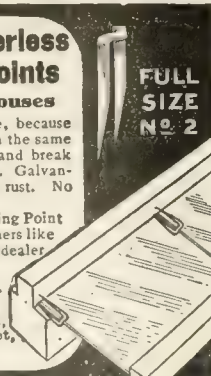
241 Elm St., BUFFALO, N. Y.

Dreer's Peerless Glazing Points For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts. The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid.

Samples free.
HENRY A. DREER,
714 Chestnut Street,
Philadelphia.



FULL
SIZE
No. 2

The Florists Hall Association rate of insurance from Nov. 1st, 1916 to Nov. 1st, 1917 will be twenty cents per hundred square feet of single thick glass and eight cents per hundred square feet of double thick glass. For particulars address JOHN G. ESLEER, Sec., Saddle River, N. J.

CYPRESS GREENHOUSE STOCK

PECKY CYPRESS STOCK

HOT BED SASH

Ask for Circular D and Prices

THE A. T. STEARNS LUMBER COMPANY

NEPONSET, BOSTON



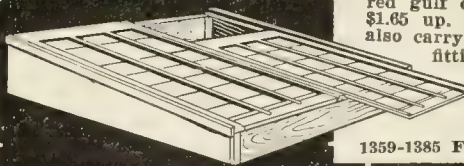
Selecting Sash Operating Device and Greenhouse Fittings requires careful consideration

You will find Advance Materials Right.
You will like our methods of doing business.

Just drop us a card asking for one of our catalogs.

ADVANCE CO. Richmond, Ind.

JACOBS GREENHOUSE SUPPLIES



Hotbed Frames from 80c. up; very best clear red gulf cypress. Glazed Hotbed Sash from \$1.65 up. Double light Sash up to \$4. We also carry glass, pecky cypress, boilers, pipe, fittings, putty, etc.—in fact everything for greenhouse construction. Get our prices today—they're right!

S. Jacobs & Sons

1359-1385 Flushing Ave. BROOKLYN, N. Y.

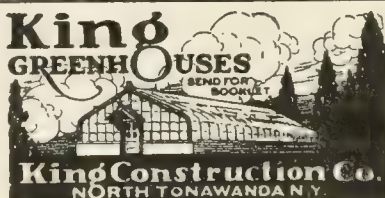
Use the only shading

E. A. LIPPMAN

6 HIGH STREET

Morristown, New Jersey

Send for Booklets



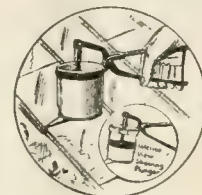
THE ONLY PERFECT LIQUID PUTTY MACHINE

WILL LAST A LIFETIME, \$1.25 each

The frame is malleable iron and the can is removable. Easy to operate.

"SEAL TIGHT LIQUID PUTTY"

will not harden, crack or peel off.
\$1.35 per gallon in 10 gallon lots.
\$1.40 per single gallon.



Metropolitan Material Co.
PATENTED GREENHOUSES

1297-1325 Flushing Ave., Brooklyn, N. Y.

In Writing to Advertisers kindly mention Horticulture

JACOBS BUILT TO LAST GREENHOUSES

The strong, simple construction of Jacobs Greenhouses enables us to keep costs down to a minimum, without affecting durability or utility. In commercial greenhouse building, especially, where costs must be carefully considered, we honestly believe we can give you a "bigger dollar's worth" than the average. Backed by half a century's experience. Write for estimates—today!

S. JACOBS & SONS

1359-1385 Flushing Ave. Brooklyn, N. Y.



FOLEY MATERIALS ARE THE BEST FOR Iron Frame, Pipe Frame or Wood Frame GREENHOUSES

Estimate and Sketch Submitted Promptly

THE FOLEY GREENHOUSE MFG. CO.

3275 West 31st Street, CHICAGO, ILL.

HOT BED GLASS GREENHOUSE
BEST BRANDS LOWEST PRICES
SHARP, PARTRIDGE & CO.
2263 Lumber Street, CHICAGO

MOST PRACTICAL Shelf Bracket



20c
With Bolts
Complete

Made for 2 6-inch boards or two lines of 1-inch or 1 1/4-inch pipe and can be clamped on 1 to 2-inch upright pipe columns.

FLATS
12 x 20 x 3 inches — 8 cents

Non-Kink Woven Hose

In any length (one piece) with couplings, 14c. per foot. Remnants 15 to 30 feet, coupled, 10c. per linear foot. Unequaled at the price.



Hose Valve—70c.

All brass except the hand wheel. Has a removable leather disk which is easily replaced to keep water-tight. Stuffing box prevents leaks at stem.

Metropolitan Material Co.

1297-1325 Flushing Ave., Brooklyn, N. Y.

In Writing Advertisers
Kindly Mention
HORTICULTURE

MASTICA



For Greenhouse Glazing

USE IT NOW

F. O. PIERCE CO.

12W. BROADWAY
NEW YORK

Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

GLASS

AND
HOT-BED SASHES

Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.

215-217 Havemeyer St., Brooklyn, N. Y.

"Our Greenhouse is a Model of Perfection."—A. M. Robertson



We erected this Metropolitan Greenhouse for Mr. M. Burrill on his estate at Jericho, L. I.

The contract for this Metropolitan patented bent eave, full iron frame greenhouse with bent eave vestibule and stucco service house, also included the masonry, flower box and trellis work.

Being partitioned in the middle, this greenhouse has two compartments, which can be heated and controlled separately.

Mr. A. M. Robertson, superintendent of this estate, writes that "it is a model of perfection."

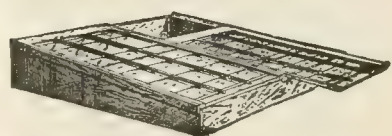
Metropolitan service goes far beyond the mere mechanical process of construction. It strives constantly to increase the producing power of the owner's investment in his greenhouse.

PUT YOUR GREENHOUSE PROBLEMS UP TO US

We go anywhere in the U. S. to submit plans and prices.

Metropolitan Material Co.

1297-1325 Flushing Ave.,
Brooklyn, N. Y.



HOTBED SASH at 80c. each

Made of best grade Gulf cypress.

Glazed Hotbed Sash from \$1.65 up.

Double Light Hotbed Sash

2 inch thick, painted two coats, glazed two layers 10 x 12 glass, \$3.75 each up. We claim that our double light sash are better than any other made.

We have in stock thousands of all kinds for immediate shipment.

HOTBED AND GREENHOUSE GLASS AND PUTTY.

Metropolitan Material Co.

1297-1325 Flushing Ave., Brooklyn, N. Y.



Evans 20th Century Arm

Most up-to-date arm on the market. Proof that it is better than any other is that others tried to imitate it. Write for our 1916 catalog just out.

JOHN A. EVANS CO.
Richmond, Ind.

Going Back to the Civil War for Conclusive Evidence That Wrought Iron is Better Than Steel for Side Posts



Lord & Burnham's guaranteed Wrought Iron post equipped with foot pieces, gusset plates, eave plate, and combined eave plate fitting and U-drip gutter bracket.

THE iron ore from which the big Parrot guns of the Civil War were made, was mined at Peddler Hill, fifty miles from New York.

The mine was abandoned thirty-five years ago.

Tramps soon burned all the buildings down.

Nothing is there now but the big yawning opening in the rocks.

But all the tackle guy eye irons, set in the rocks; and all the stay bolts that fastened the engine to its bed; are still there good as ever, after their years and years of constant exposure.

They are all wrought iron.

They have rusted but little.

So little in fact that the screw threads on the engine bed anchor are still plainly there.

We use guaranteed Wrought Iron for our posts, because it lasts.

It's one of the important points of our houses of Everlasting Lastingness.

Good houses cost more than poor ones.

But poor houses cost good money.

The growers who are making good; are putting their good money in good houses.

For your own good, build one of our good houses.



Pipe column with base plate and top cap. Note what a good rugged fitting it is. Six bolts secure it to the rafter. Two clamp it to the column. Two bolt it to the truss.

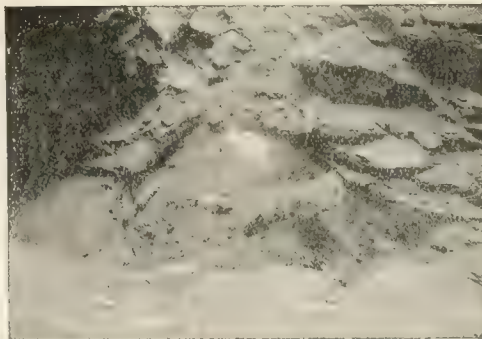


For ten years more than half a century, this Wrought Iron guy eye iron has been embedded on the weather exposed rock of Peddler Hill. From its looks, it will be there as good as ever for a century more.

Lord & Burnham Co.

Builders of Greenhouses and Conservatories
SALES OFFICES:

NEW YORK, 42nd Street, Bldg. BOSTON, Tremont Bldg.
PHILADELPHIA, Widener Bldg. ROCHESTER, Granite Bldg.
CHICAGO, Continental and Commercial Bank Bldg.
CLEVELAND, Sweetland Bldg. DETROIT, Penobscot Bldg.
TORONTO, Royal Bank Bldg. MONTREAL, Transportation Bldg.
FACTORIES: Irvington, N.Y. Des Plaines, Ill.
St. Catharines, Canada



A peep into the mouth of the famous old Peddler Hill mine where the high grade ore for the big Civil War guns was mined.



This engine bed bolt of Wrought Iron, has been exposed to all weathers for thirty-five years. Even the threads for the screw cap are still not rusted away.

Vol. XXV
No. 18
MAY 5
1917

HORTICULTURE



Rhododendron Vaseyi

Published Every Saturday at 147 Summer Street, Boston, Mass.
Subscription \$1.00



Sim's Hybrid Yellow Polyanthus

(Giant English Primrose)

GOLD MEDAL AWARDED AT PHILADELPHIA

This is the best selling novelty in years. They make charming pot plants, and are indispensable for cutting. They bloom from December to May.

Stock is limited. Strong divisions for May delivery.

Prices: 100 \$7.50, 500 \$25.00, 1000 \$50.00

AURICULA PLANTS one year old in bud and bloom \$15.00 per 100.

WILLIAM SIM, CLIFTONDALE, MASS.

HERE ARE BARGAINS

Must be SOLD IMMEDIATELY to Make Room for Young Vegetable Plants.

1500 Geraniums, 4-inch pots, Nutt and Poitevine, 6c.

600 Pentstemon Southgate Gem, 2-inch pots, 3c.

800 Vinca alba, 2-inch pots, 3c.

700 Carnations, Alice and Matchless, 3c. Good strong plants.

These prices are for stock as it stands on the benches. Delivery will be extra.

J. L. CHAPMAN
Beverly Farms, Mass.

ROBERT CRAIG CO.

ROSES, PALMS,

and Novelties in Decorative Plants.

MARKET and 49th STREETS PHILADELPHIA, PA.

CARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND

A. N. Pierson, Inc.
CROMWELL, CONN.

Bedding Plants and Roses

CHARLES H. TOTTY
CHRYSANTHEMUMS
MADISON, N. J.

ROEHRS' SPECIALTIES

Choice Nursery Stock. Conifers, Roses, etc.

ORCHIDS, PALMS

Greenhouse Novelties of Merit

Awarded Gold Medal and Silver Medal at Boston Spring Show for Choice and Rare Orchids

Alpines and Hardy Habaceous Plants for the Border and ROCK GARDEN. Everything in Useful, Hardy and Tender Plants.

Send for Catalogue.

JULIUS ROEHRS CO.
RUTHERFORD, N. J.

CATTLEYA DOWIANA

Fresh Importation in Fine Condition

Prices on application

GEORGE SCHLEGEL

72nd St. and 2nd Ave., Brooklyn, N. Y.

ORCHIDS

We grow and sell nothing but ORCHIDS. If you are in the market for this class of plants we respectfully solicit your inquiries and orders. Special lists on application.

LAGER & HURRELL, Summit, N. J.

HYDRANGEAS

In Bud and Bloom

We offer a very nice lot of French varieties, like Mme. E. Mouillere, Radiant, and E. G. Hill. \$1.00, \$1.50, \$2.00 and \$3.00 each.

F. R. PIERSON, Tarrytown, N. Y.

HEADQUARTERS FOR

PALMS, FERNS, PANDANUS, DRACAENAS, CROTONS

Marantas, Araucarias, Primulas, Geniastas, Lilacs, Prunus, Box Trees and a fine lot of Azaleas, LILIES and other EASTER STOCK AND BEDDING PLANTS at lowest wholesale prices.

A. LEUTHY & CO.
ROSLINDALE, BOSTON, MASS.

DRACAENA CANES

Fall Shipment

All Commercial Varieties

Write for prices

McHutchison & Co.

THE IMPORT HOUSE

95 Chambers St., New York

WHITMANII IMPROVED—\$5 per 100, \$40 per 1000.

WHITMANII COMPACTA—\$5 per 100, \$40 per 1000.

ROOSEVELTS—\$5 per 100, \$40 per 1000.

BOSTONS—\$4 per 100, \$35 per 1000.

250 at 1000 rates.

H. H. BARROWS & SON, Whitman, Mass.

HYDRANGEAS

In bud and bloom, fine perfect stock, from 75c. to \$3.00 each. Any quantity for Memorial Day.

A. L. MILLER, JAMAICA, N. Y.

When writing to advertisers kindly mention HORTICULTURE.

SPRING STOCK

CERANIUMS

In good assortment, standard sorts, single and double. Also Ivy Leaved, Scented, Rose, Apple, etc. 2-in. \$2.00 per 100, \$20.00 per 1000; 3-in. \$3.00 per 100, \$25.00 per 1000; 4-in. S. A. NUTT, ABBIE SCHAEFFER, etc., \$1.00 per doz., \$7.00 per 100, shipped without pots. 2-in., \$2.00 per 100, \$18.50 per 1000; 3-in., \$3.00 per 100, \$25.00 per 1000. ACHYR-
MISCELLANEOUS PLANTS ANTHES, ALYSSUM, Giant and Dwarf. ALTERNANTHERAS, 10 varieties. AGERATUM, 6 varieties. BEGONIAS, Luminosa, Vernon, Ertordii, Pfitzer's Triumph, Gracilis Rose. CUPHEA. COLEUS, 10 varieties. HARDY ENGLISH IVY. HELIOTROPE. LEMON VERBENAS, LANTANAS, 10 varieties. MOONVINES, White and Blue. PARLOR IVY. PETUNIAS, Double, Fringed, Mixed Colors. CHRYSANTHEMUMS, Pompon. SCENTED GERANIUMS. SALVIA, Bonfire and Zurich. SWAINSONA, White.

ABUTILON SAVITZII, 2-in., \$3.00 per 100; 3-in., \$4.00 per 100.

SEND FOR CATALOGUE

CASH WITH ORDERS

R. VINCENT, Jr., & SONS CO., WHITE MARSH, MD.

GROWERS OF PLANTS FOR THE TRADE

AUGUST RÖLKER & SONS

IMPORTERS AND FORWARDERS—HORTICULTURAL PRODUCTS

Consult us before placing orders

P. O. Box 752 NEW YORK 51 Barclay St.

LILY BULBS

RALPH M. WARD & CO.

71 MURRAY ST., NEW YORK

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Orders Taken Now for 1917 Crop

Valley

CHAS. SCHWAKE & CO., Inc.

90-92 W. Broadway, NEW YORK

CHRYSANTHEMUMS

For Every Purpose
NOW READY

Send for Catalogue

Elmer D. Smith & Co.
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JAP. LILIES

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25 West Broadway - New York

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"Get them at Dreer's"

Hardy Perennials

For many years one of our most important specialties, our stock this season is again in prime condition, more extensive than ever, with a complete assortment of both standard varieties and novelties.

Roses, Two Year Old Plants for Outdoor Planting

Our Roses are all field grown plants which were dug in the fall, and which during the winter months were potted into 5 and 6 inch pots. They are stored in cold houses and frames, being retarded as much as possible, and are just the sort of stock that will please your retail customers. We are particularly strong on Hybrid Teas but carry also nearly all other types.

Aquatic Plants

Eight acres of Ponds are devoted to Hardy Nymphaeas and Nelumbiums alone, a large assortment of Tropical Nymphaeas, Victoria Regia, etc., as well as sub-aquatic plants for marginal planting. If interested in these, send for our book 'Dreer's Water Lilies.' It is not only descriptive, but gives full cultural directions.



HARDY NELUMBIUMS.

Hardy Shrubs and Vines

A choice assortment of standard varieties—Altheas (including our own splendid novelty William R. Smith) Azaleas, Callicarpa Purpurea, Hydrangea Aborecens Grandiflora, and Paniculata Grandiflora, Cotoneasters, Buddleias, Deutzias, Forsythias, Prunus, Philadelphus, Spiraeas, Viburnum, Weigelas, Ampelopsis, Akebia, Aristolochia, Clematis, Honeysuckles, Wisterias, etc.

Decorative Plants

Palms and Ferns, Aspidistra, Crotons, Dracaenas, Ficus, Pandanus, etc. Amaryllis, Tuberous-Rooted Begonias, Caladium Esculentum and a splendid assortment of Fancy-Leaved Caladiums, Golden Yellow and Spotted-Leaved Callas, Hyacinthus Candicans, Gladiolus, Lilies, Montbretias, Tigridias, Tuberoses, etc.

All of the above and many others are fully described in our current Wholesale List, January to June, which will be mailed upon request only to persons engaged commercially in Horticulture.

HENRY A. DREER

714-716 Chestnut Street,

Philadelphia, Pa.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toil, we ought to blame the culture, not the soil"—Pope.

Asters

In order to cover the entire aster season, reliance must be placed on the various types, early, midseason and late, the time of sowing counting for little or nothing in the hastening or prolonging of the cut. Several successive sowings of the best strains obtainable should be made from now until the middle of May and even later if a crop of flowers for the latter part of October is desired. The aster grower's busy season has begun. The seed of midseason and late can be sown in flats using a compost of new soil three parts, leaf mold and well rotted manure one part each, with some sand. Provide a temperature of 55 to 65 degrees at night. Keep moist and shaded until the seed begins to germinate, when they should be placed up near the glass in full sun. The seedlings should be transplanted once and allowed to become of sturdy size before going into the open field.

Chrysanthemums

Give them airy quarters and plenty of sun. See that they are kept clean by timely fumigations. Don't let them become potbound. As every flower grower knows, chrysanthemums are great feeders and soon draw all the plant food from the soil. There is nothing better for them than sod that was cut last fall and piled up. Use at least one part of well-rotted cow manure to three of chopped sod. As they advance they will take equal parts of sod and cow manure with a sprinkling of bone meal. Keep all chrysanthemums as cool as possible, giving ventilation, more or less, according to the outside condition. Do not neglect a couple of good syringings on all bright days.

Ficus

Whenever you have a little time you can place a batch of cuttings in 2½ or 3-inch pots. Tie up the leaves so that they can stand close together and plunge the pots in a propagating frame with a bottom heat of 80 degrees and keep moderately moist until they are rooted. A good compost is equal parts of loam, leaf mold and sand. Keep them in a frame where they will have a close heat until well established, after which about 65 degrees at night will suffice. They can also be increased by the mossing system. If kept constantly moist, in four or five weeks they will be fit to be cut off and potted. For a shift use three parts fibrous loam and one part of well-decayed cow manure with a light

sprinkling of bone meal. When shifting pick away the drainage and as much of the old soil as possible and pot firmly. They will require quite a bit of shade from now on and they will stand lots of syringing and water at the roots. See that they do not become crowded.

Hydrangeas

There is no better time than the present to top some of the shoots from below and get them into the sand; they will root in three to four weeks. All of the plants which were either too late for Easter or are intended for Memorial Day should be given free room for development. If we crowd hydrangeas a spindly growth and loss of leaves is bound to follow. The new French hydrangeas made a fine showing last Easter. The newer sorts, some of which should prove excellent for summer use outdoors in pots and tubs for veranda or lawn decorations should be given a trial.

Palm Seed

It is during the spring and summer that the greater number of palm seed shipments arrive. Palm seed germinates very irregularly, the period varying anywhere from four weeks to six months. The seeds can be sown in a bench, flats, or pans, with a bottom heat of 75 to 80 degrees. Leaf mold, sand and loam in equal parts make a good compost for any variety. Give them 65 to 70 degrees at night. When they show one or two leaves pot off singly into 2-inch or 2½-inch pots. During their germinating period keep the compost in an even moist state, but not soaked, as that only tends to rot the seed. They will need close attention in this respect.

Reminders

After flowering cut the boronias back a little and wait until the stems break again before repotting.

Look to the hardening of all bedding plants. None should be taken direct from warm houses to be planted out.

That fine marguerite, Queen Alexandra, should be freely propagated. It is a fine grower and the flowers are of excellent quality and substance.

Many hard wooded plants will require to be lightly cut back to keep them shapely. The stronger growing kinds like acacias may be cut harder than heaths and similar subjects.

Next week: Antirrhinums; Bay Trees; Lorraine Begonias; Cemetery Vases; Gardenias; Reminders.

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HORTICULTURE

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Improvement The Mothers' Day propaganda as conducted this year under florist trade auspices is to be commended as a vast improvement over the injudicious exploiting which it suffered from at the start and which tended to cheapen and degrade not only those who were responsible for the methods adopted but the entire floral industry. We hope to see still further improvement next year in the method of appeal to the public for patronage on

account of this annual occasion and shall be pleased if the returns from its observance this year may substantially recompense the efforts that have been made to bring business decently to the florist, whose interests are already being jeopardized by the unwarranted interference of narrow-minded theorists and professional agitators who would have the flower business put under public ban as a wicked luxury in the present emergency.

Seed problems

The home gardening movement, under the stimulation of agricultural departments, societies, newspapers, governors, corporations, mayors and innumerable other influences, including the H. C. L. as a mainspring, has everywhere assumed gigantic proportions as evidenced on all sides where a piece of vacant ground is available and a visit to any one of the popular seed stores reveals a scene suggestive of a special bargain day at some department store. One disturbing thought in connection with all this scramble is that so much precious material in vegetable seeds is doomed to be wasted, for a large proportion of the people who are about to try their hand at vegetable gardening are profoundly ignorant of cultural requirements and the outcome of many of these first attempts, without expert supervision, is easy to imagine. It is a pity that the test should come at a time when every bit of seed in the country has a rare potential value and when so much uncertainty attaches to the replenishment of stocks for the following season. As is well known, there would have been difficulty in supplying even the normal demand for some of the most useful seed staples owing to short crops last year. A full seed supply for next year is a vital necessity and with every ounce of holdover stock used up, a crop failure this season will be nothing short of disastrous. A bumper yield of vegetable seed will be worth more than money.

Order out of confusion

We have received from Harlan P. Kelsey, secretary of the American Joint Committee on Horticultural Nomenclature, a copy of the 1917 Official Code of Standardized Plant Names which has been adopted and published by the committee for use in ordering, labeling and catalogue compilation. Represented in the joint committee are the American Association of Nurserymen, Ornamental Growers' Association, American Society of Landscape Architects, American Pharmaceutical Association and American Association of Park Superintendents. The compilation of this code is a big forward step for which the nursery and plant trade should be profoundly grateful and we hope to see its style of classification come into general use and its scope further extended and elaborated. The co-operation of the Society of American Florists and Ornamental Horticulturists would add much prestige and greatly help toward the standardization of such a document. In its present form it has been included as an important feature of the supplement to the last volume of Bailey's Standard Cyclopedia of Horticulture. The need for such a code or list of plant names will not be questioned. Its proper use should go far to reduce the confusion, inconvenience and losses which have hitherto beset buyers and dealers alike from the widespread use of different names for the same plant and identical names for different plants.

Among the various forms of "patriotism" which have been urged upon the public the proposition to put the florist out of business should be slated for a quick death.

Your Carnations

May is the best month of the year for the carnation grower. For Mother's Day, the second Sunday, and Memorial Day, the 30th, every bloom is readily sold at good prices and the cut 50 per cent. better than any previous month, customers pleased and looking forward to your goods next season. This figures out a good month. But to get this result a little thought was required and some study of other seasons. If one has kept a careful record of the cut of each variety grown for several seasons a selection may be made of such sorts as will give a steady yield of high grade blooms throughout the season and at the same time build up a plant that will give a large crop in May. These sorts must be able to stand high culture and forcing without showing disease. Matchless is a suitable subject and White Winsor and Pink Delight will stand the treatment without going soft. Since Mother's Day has come to be the best carnation day of the year the former plan of handling the crop has been modified and will be subject to still further change. Two holidays during May make prices attractive and the longer days and high rising sun make for a heavy cut if the plants are in condition. Right here is the text.

When the sun shows its power in March or so and fly, spider and thrips show up with renewed vigor the carnation man has his hands full. Blooms are coming into the market more freely, bulb stock is in evidence and young carnation plants are demanding more room and more care. Just at this time some decision must be reached. The same men in the same time can't do twice the usual amount of work and the plants will not thrive on neglect. Better get out the records of other seasons, do some close studying, then pull up what you cannot use and care for the rest. The plants from now on require twice as much water and salt and nicotine. Give it to them! Put on the extra wires on the south side of the benches to keep in the straggling shoots, keep the buds picked and all shoots leading straight up. Cut all blooms when cold and crisp in the early morning and in the right stage of development. Put your blooms into your customers' hands in perfect condition and get a living price for them.

Charles S. Harris.

Biddeford, Me.

One Phase of the Food Problem

To the Editor:

At this time let us fight the foe within. Who would feed a dog for less than 10c. a day—\$36.50 a year? Multiply this by our five million dogs and you have one billion, eight hundred twenty-five million dollars for food alone. Trainloads after trainloads of provisions alone must go to feed worthless brutes while Europe starves.

Millions of acres east and west must be idle on account of useless curs. The president of the Sheep Growers' Association of Connecticut had to give up sheep growing on account of dogs. In the early days, one thousand sheep were mangled and smothered in a single night by dogs. In Nebraska, a friend of mine went out to bring in his three horses and found the dogs had driven them into a wire fence and they were so mangled they had to be killed. The poor man had to suffer the loss. A friend adopted a fine, hale looking boy with one arm. I asked what became of the other. It was so mangled by a vicious dog it had to be taken off. About the same time a dear old lady was almost torn to pieces by a savage brute.

The remedy.—Let the nation put a tax of ten dollars on every dog in the United States. That would eliminate useless ones. A dead dog would then be a fine national asset. He has learned to get along without eating and what he saves would be so much gain. We love a good dog and our eyes moisten as we read of his courage and fidelity, but a hundred worthless curs ought not to live on the reputation of one decent one. If a man has a good dog he can pay the tax which should go to feed the starving children of Europe. The sons of millionaires who get up dog feasts could pay. The woman who prefers a pup to a baby would gladly pay ten dollars for the joy of kissing the brute. Mark this. A live dog's bark is a nuisance. A dead dog's bark makes fine gloves. Give us the gloves. Two or three million dog skins thrown on the market at this time would relieve the leather famine.

C. S. Harris.

York, Neb.

THE LATE W. C. LANGBRIDGE.

It is one of the rich blessings in life to have the acquaintance and claim the friendship for a long period of years with a man of the ability, congeniality and thorough good will, all of which qualities were so richly implanted in William C. Langbridge, whose funeral was held at Albany, New York, his home, on Sunday, April 15th, 1917. Mr. Langbridge had been a traveling man for the Jerome B. Rice Seed Company for twenty-nine years, and in that period of time had, as a matter of course, seen the wonderful changes that have happened in the past quarter of a century in the seed business. He had a personal acquaintance with not only all the present day men of the trade, but could look back a generation and speak in affectionate

terms of so many of the old gods in the business. He was a man bubbling over with good nature always, and pre-eminently the best acquainted man with the seed trade and with the canning trade in the United States. Friend Bill's congenial smile and bread humor was known everywhere by everybody, and his frequent visits will be missed greatly by his very, very, large circle of acquaintance in the canning trade and in the seed trade. Almost the entire official and established staff of the Jerome B. Rice Seed Company attended the funeral as did many others of his close associates in the seed trade and in the canning trade. The unusual array of floral tributes, gave mute testimony to the man who had become a national figure.

WATSON S. WOODRUFF.
Orange, Conn.

COVER ILLUSTRATION.

Rhododendron Vaseyi, which is the feature of our cover illustration this week, is a native of North Carolina and is perfectly hardy in Boston, where the photograph was taken from which our cut was made. The view shows one of the groups planted by the late superintendent of Boston parks, J. A. Pettigrew, who had a great admiration for this azalea as it was first called. The flowers are rose pink, some plants bearing much deeper tinted flowers than others, and it blooms in late April or early May, just before the leaves appear.

Serissa foetida, a pretty little plant with tiny foliage and thickly covered with starry white flowers is highly recommended as an additional Easter flowering plant by W. A. Manda.

CLUBS AND SOCIETIES

AMERICAN ROSE SOCIETY.

An Executive Committee meeting of the American Rose Society was held in New York, April 24th. A special vote of thanks was passed to fourteen retailers who put up attractive exhibits at the Philadelphia Rose Festival. The gentlemen so represented were: Pennock Bros., Gude Bros., Chas. Henry Fox, Harry Betts, V. I. Ride-nour, Julius Wolf, Jr., T. N. Geiger, J. J. Habermehl's Sons, Ira G. Marvin, John C. Gracey, John Kuhn, London Flower Shop, J. Wolf Moore, Chas. Grakelow.

The Secretary reported a large number of letters received commending the excellence of the Rose Annual for 1917. L. J. Reuter reported progress in regard to the outdoor exhibition of roses to be held July 4th at Newport, R. I.

President S. S. Pennock appointed as Rose Garden Comm.tees the following:

Central Committee—Admiral Aaron Ward, Roslyn, N. Y.; Louis J. Reuter, Westerly, R. I.; Geo. C. Thomas, Jr., Chestnut Hill, Phila., Pa.

Hartford (Conn.) Committee—J. F. Huss, Hartford, Conn.; Alex. Cumming, Jr., and Wallace R. Pierson, Cromwell, Conn.

Arlington Rose Garden Committee—Robt. Pyle, West Grove, Pa.; F. L. Mulford, Washington, D. C.; Wm. F. Gude, Washington, D. C.; Dr. D. W. Shoemaker, Washington, D. C.; Mrs. C. W. Wetmore, Pres., Capitol Garden Club, Washington, D. C.

Ithaca (N. Y.) Committee—Prof. A. C. Beal, Ithaca, N. Y.; Rev. E. A. Mills, D. D., Syracuse, N. Y.; Prof. E. A. White, Ithaca, N. Y.

Minneapolis Committee—Theodore Wirth, Supt. of Parks, Minneapolis, Minn.; Olaf J. Olson, St. Paul, Minn.; Hugh Will, Minneapolis, Minn.

The Secretary reported several requests for medals for local societies, and it was suggested that a medal different from the official medal be used for this purpose, and the following committee was appointed to take charge of this: S. S. Pennock, J. Horace McFarland, Prof. E. A. White.

The question was discussed of making one uniform rate for membership, instead of the present associate and active members, so as to make it possible to keep up the publication of so good a book, and also occasionally send some other interesting matter to members.

A report on the Philadelphia Exhibition was given in part, and a final accounting will be rendered shortly.

BENJ. HAMMOND, Secy.

NORTH SHORE HORTICULTURAL SOCIETY.

An intensely interested and attentive audience was present at the

Meetings Next Week

Monday, May 7.

Bernardsville Horticultural Society, Horticultural Hall, Bernardsville, N. J.
Elberon Horticultural Society, Fire Hall, Elberon, N. J.
Houston Florists' Club, Chamber of Commerce Rooms, Houston, Tex.
Montreal Gardeners' and Florists' Club, Montreal, Canada.
New Bedford Horticultural Society, New Bedford, Mass.
Washington Florists' Club, Washington, D. C.

Tuesday, May 8.

Newport Horticultural Society, Newport, R. I.

Wednesday, May 9.

Cincinnati Florists' Society, Jabez Elliott Flower Market, Cincinnati, O.
Dutchess County Horticultural Society, Fallkill Bldg., Poughkeepsie N. Y.
Lenox Horticultural Society, Lenox, Mass.
Morris County Florists' and Gardeners' Society, Madison, N. J.
Nassau County Horticultural Society, Pembroke Hall, Glen Cove, N. Y.

Thursday, May 10.

Menlo Park Horticultural Society, Menlo Park, Calif.
New London Horticultural Society, Municipal Bldg., New London, Conn.

Friday, May 11.

Connecticut Horticultural Society, County Building, Hartford, Conn.
Westchester and Fairfield Horticultural Society, Doran's Hall, Greenwich, Conn.

Saturday, May 12.

Dobbs Ferry Gardeners' Association, Dobbs Ferry, N. Y.

monthly meeting of this society in Manchester, Mass., to listen to a talk by Dr. H. J. Wheeler on the all engrossing subject of food production and conservation. Dr. Wheeler made it very plain that in his judgment the question of cereal and vegetable food supply will become very acute during the coming year. He gave practical advice on the treatment of soil, seed and growing crops in order to secure the greatest possible quantity and quality of product.

HORTICULTURAL SOCIETY OF NEW YORK.

An exhibition of plants and flowers will be held, in co-operation with the New York Botanical Garden, on Saturday and Sunday, May 12th and 13th, in the Museum Building, New York Botanical Garden, Bronx Park. The exhibition will be open free on Saturday, from 1 to 5, and on Sunday from 10 to 5. Schedules are now ready for distribution, and will be sent on application to the secretary, George V. Nash, Mansion, New York Botanical Garden, Bronx Park, N. Y. City.

GEORGE V. NASH, Secy.

CLUB AND SOCIETY NOTES.

The Horticultural Club of Boston had a special meeting at the Parker House on Monday evening, April 30, to meet and enjoy the company of Theodore Wirth, superintendent of the Minneapolis Park System. Other guests were F. C. Green, superintendent of the parks of Providence, R. I., John H. Dillon, chairman Boston Park Commission, and Messrs. Albert Schelenberg and Andrew Kofer. Twelve vases of auriculas, declared to be the grandest display ever made in this country of this beautiful flower, the gift of William Sim, adorned the table.

The Syracuse (N. Y.) Rose Society will hold its annual rose show June 21 and 22. With the coming of many visitors to the annual meeting of the State Federation of Horticultural Societies and Floral Clubs, it was thought best to select the dates early enough so that the visitors may plan to attend the exhibition. The show will be under the general direction of Dr. G. Griffin Lewis, and the committee which selected the dates is composed of James M. Gilbert, Hamlet Worker, John T. Roberts, W. R. Foster, Dr. Robert C. Scott and Dr. John C. Benz.

The regular monthly meeting of the Florists' Club of Washington, D. C., was held last Tuesday evening. Considerable business was taken care of, included in this being the making of an appropriation of \$100 for the Red Cross to be used as a part of its fund for hospital service in connection with the formation of our army and future possible hostilities. President Jenkins was authorized to appoint a committee of three to make arrangements for an entertainment in connection with the meeting for the month of June. The coming of the American Rose Society to Washington next month was also discussed.

HILL-BERTERMANN INDIANAPOLIS INTERESTS MERGE.

It is announced that Bertermann Bros. Co. will take over the interests of the E. G. Hill Floral Co. in Indianapolis. Mr. E. G. Hill believes that his firm's business in the new rose line will require all their attention in the future. The Bertermann firm is duly equipped for a much larger business in Indianapolis. The E. G. Hill Floral Co.'s interests consist of a model store and a first class business. The operation of the two stores will continue under the same heads, same equipment and same good service for an indefinite period. Much of the Hill rose stock will still be brought over from Richmond and this will be aided much by a part of the Bertermann output in E. Washington St. and Cumberland. With the combined patronage of both places the new arrangement will give Indianapolis one of the largest firms in the middle-west.

HOW TO RAISE ORCHIDS METHODICALLY

Most growers of Orchids, whether amateur or professional, have at some period or other made attempts to rear their own seedlings. A more fascinating or interesting work it is impossible to conceive. And as I have met with considerable success in this particular branch of Orchid culture, I have pleasure in submitting what I consider the best methods of procuring successful results.

I only intend to deal with those species which are most extensively grown; and as they all require more or less different treatment and methods, I shall deal with them separately, giving only those systems which have proved to be productive and reliable.

Cypripediums.

As Cypripediums have within the past few years become exceedingly popular with most of the leading connoisseurs—and the progress made by hybridization has been most phenomenal—I will commence with this species.

Numerous experiments have been made with the object of raising successfully and abundantly the seed of this Orchid, but the majority have turned out failures, or partially so. The following method, however, has yielded splendidly successful results.

Select a number of strong, healthy, well-rooted plants—the short-leaved ones for preference, such as *Cyp. Harrisianum*, *barbatum*, *Lawrenceanum*, *callosum*, and *cananthum*. Short-leaved plants do not rob the seed (and afterwards the young seedlings) of light and air—two essentials to successful germination.

After the selection has been made, every plant should be repotted in a mixture of good, fibrous loam, *Osmunda* fibre, sphagnum moss (with all heads removed), and a good sprinkling of silver sand and small crocks. About one-quarter of the pot should be first filled with broken crocks, taking extreme care to place them in an upright position, wedging one against the other to hold them firm. This will ensure them free drainage, and a comparatively clear passage of air. Thoroughly cleanse plants from old potting materials, and carefully wash all the old roots in clean soft water. Pot the plants firmly, but not too hard, and try to secure an evenness of surface. This should be about three-quarters of an inch from the top of the inside of the pot, and which will allow the plants to be watered without any fear of washing away the seed.

The plants, after potting, should remain for about two weeks before any seed is sown round them, giving them during this period an abundance of water so as to get them thoroughly soaked and settled. They should also always be watered about two hours before sowing.

To sow the seed, make a small aperture about the size of a pin head in the side of the seed-pod; then place the pod between the forefinger and thumb over the plant, and gently tap

the pod from behind, gradually moving the pot until you have sown all round the plant.

November, December, January and February are the four best months for sowing. Care should always be taken not to have other plants near when sowing, as the seed is so light, and a small quantity may float about and settle on them, thus causing a mixture of seed which may afterwards perplex the grower.

After the seed has been sown, the plants should be placed in the position where they are intended to remain; and they should be slightly sprayed overhead and well syringed between the pots. They will not then require watering again for about a week or ten days. Then water very carefully with a fine rose, but on no account give more water than the pot will hold without flowing over the top, or the seeds may be washed away. Continue this treatment for about six weeks, by which time, and sometimes before—providing the seed sown was fertile and in good condition—tiny, almost white, seedlings will appear. They should not be disturbed for at least another six weeks, which will make it about three months from the time the seeds were sown.

Then place the strongest of them singly in thimble pots; and some of the rather weaker ones two or three in a pot, leaving the smallest ones until they get larger and stronger.

The removal of the seedlings requires great care and unlimited patience. A sharp pointed bone needle is very useful for this purpose, and each seedling must be lifted separately.

The compost for potting these may consist of loam fibre, *Osmunda* fibre, and sphagnum moss in equal proportions, shopped very fine, with all the dust removed; about two crocks in the bottom of the pot is sufficient.

Water very sparingly for two or three weeks with a fine rose. If the time can be spared, dipping is much safer. When once they have become established in these pots, the only thing to be done is to put them on as often as they require it. Never let them become root-bound or starved; and in three to four years the plants will be strong enough to flower.

The temperature should never fall below 60 deg. and never rise to more than 70 deg., except by sunheat. The house must never be allowed to get dry, and the syringe or sprayer should be used very freely. Admit air whenever the outside conditions will allow, and keep the glass clean, especially during the winter months. Give plenty of shade during the hot summer months; also fumigate regularly about every three weeks, and success is a certainty.

Cattleyas.

Years ago this species was considered one of the most difficult to secure from seed, and it was only by chance that most of the hybrids we then had were raised. However, since then tremendous strides have been made, and

it is now only a matter of how many to keep and what to discard. Every year has brought forth new ideas, and after hundreds of experiments it is now possible to prick off small seedlings in just over a week from the time of sowing.

You do not require plants for the sowing of your seed as in the case of Cypripediums, and this is undoubtedly a great saving both of space and material. If one goes in for cattleya seedlings on a large scale, it is most advisable to have a small house specially erected, or an old house reconstructed for the purpose. On the other hand, if it is intended to only grow a few it may be done in any part of a house where conditions are favorable. To be successful in raising Cattleyas it requires plenty of heat, either natural or artificial—the former for preference.

Artificial heat can easily be obtained by having some cases or frames fitted up with extra hot water pipes inside the house, and the temperature may be regulated by means of valves, and a steady atmosphere kept. A dummy stage should be fixed up over the pipes, and may consist of small pieces of iron about a foot apart. Place some porous tiles on the irons, leaving the tiles about three-quarters of an inch apart, and cover to a depth of three inches with ordinary coke. This will allow free admittance of warmth from the pipes, but the coke must always be kept well damped so that no dry heat will ever reach the seed. All that now remains to be done is to make a stage, which may consist of either wood or perforated zinc. This may rest about four inches above the coke, then everything will be complete and in readiness for the seed.

The best time to sow is as early as possible in February, because the days are getting longer, and the sun has not sufficient power to necessitate the use of shading; and it also gives plenty of time to get the seedlings well established before the trying, dismal days of winter arrive.

The temperature of the cases should be kept up to 75 to 80 deg. by day, and not lower than 72 deg. at night, rising with sun heat to sometimes 85 or 90 deg. When it gets higher than 90 deg. a little shading might be used with advantage.

The next process is the sowing of the seed, and the ensuing method will be found an almost perfect one: Mix, in equal proportions, Polypodium fibre and sphagnum moss (carefully removing all heads and filth from the latter), and then put this composition in some four or five-inch pans or pots, with a few small crocks below. Over this stretch some moderately coarse canvas or linen, which has been properly sterilized. This will prevent any deadly fungus from germinating, as it may do if this rule is not adhered to. Place the pans or pots in the cases on inverted pans, and soak with soft water, letting them remain for two hours. By this time they will have

seed. The sowing should be done in a shed, and only as many pans as is intended to be sown with one seed pod should be in the shed during the operation. Then take each one separately and sow sparingly, immediately placing them back in the cases. Put a glass over each pan for the first three days, and keep cases closed up. After the third day remove the glasses, and on the fourth day and henceforth a little air may be admitted into the case, increasing the amount day by day. Never for a moment let the seed become dry—an occasional spray will ensure against. The progress of germination may be closely watched as the seed is never hidden from view.

The first sign of germination is the swelling of the seed, which gradually turns green, and becomes almost globular. Then very fine hair roots make their appearance, and as soon as the latter appear they should be pricked off with a sharp-pointed bone needle on to some prepared pans, the compost consisting of peat and sphagnum moss, packed very closely and evenly. Place about a hundred of the small seedlings on each pan, still keeping them in the cases, and after a few days these will swell tremendously, pushing up minute leaves, and also sending out small roots. In a few weeks these should again be removed, and about seven or ten placed in a small pot, with a little coarser compost of the same material. As they continue to grow they can afterwards be potted singly, and subjected to a little cooler treatment. Extreme care must be taken at all times that these small plants never be allowed to become dry, or they will shrivel up and be lost. When once they are established, pot them on as often as necessary; but always encourage them to make their growths at the proper seasons. After the first year they will thrive on fresh air, warmth, plenty of light, and abundance of water when growing. After five or six years they will be sufficiently large enough to flower.

Lælias.

This is one of the easiest of all species to raise, the reason being the excellent quality of seed it invariably yields. The same system may be adopted as with Cattleyas, except in the material used for making up the pans, which may be superseded with oak leaves. The latter must be washed and cleaned, and afterwards dried in the open. Place them in an upright position, moderately tight, to a depth of an inch and a half in the pans, and then stretch the canvas over. Water the prepared pans heavily the day before it is intended to sow, and spray lightly about half an hour before sowing. Sow the seed much thinner than in Cattleyas, spray oftener, and splendid results will follow.

Cymbidiums.

The seed of this species is very much larger than that of the majority of Orchids, and can be watched very easily from the moment it is sown. Precisely the same method may be adopted as with Cattleyas, with a temperature of 65 deg. by day, and lowering to 60 deg. at night. Give an abundance of water with a fine sprayer, dip occasionally, and admit air when favorable.

Dendrobiums.

Here again the same system as with Cattleyas will give abundant crops. The following alteration only is required: Instead of Polypodium fibre, use Osmunda; pack very closely, leaving a rough surface, then stretch the canvas tightly over the compost, pressing it well down between the side of the pan and the compost.

Odontoglossums.

In former years this species was very difficult to procure from seed, but it is now being raised very freely by several different methods, of which I give two. Both of these produce excellent results. The first one is to select a quantity of well-rooted plants. Pot them in a mixture of Osmunda fibre and Polypodium fibre, with a small quantity of sphagnum moss and a slight sprinkling of silver sand. The surface of the material should be about half an inch below the rim of the pot, and the plants well watered. About a week after potting is the best time to sow the seed, taking care that the material is very moist before doing so. Sow thinly, and take care no other plants are near. After sowing, a slight spray will be of advantage, and then place the plants in a temperature of 55 deg. to 60 deg., which may lower to 50 deg. or 55 deg. at night. Give plenty of air, and protect from bright sunlight. January and February are the two best months for sowing.

The second method is to pot the plants in oak leaves, with a covering of clean sphagnum moss. The latter must have all heads and dead ends removed, chopped up very finely, and placed on the surface not more than a quarter of an inch in depth. This may be put on very easily if it is soddened with water. The seed may be sown the following day, and must never for a moment become dry, especially when germination has commenced. As soon as a minute leaf appears, they should be pricked off with great care, and placed into small pots or pans, about an eighth of an inch apart. The compost on which they are fixed must consist of three parts of Polypodium fibre, one part of finely chopped sphagnum moss, potted firmly, with an even surface. Place the seedlings in minute cavities, so that they do not get washed away when watering or dipping, either of which may be adopted. After the seedlings begin to throw out their roots, it is beneficial to again move them, and replace them further apart on freshly prepared pots of the same compost, extreme care being taken not to damage the roots. It is of extreme importance also that they should never become dry—a great many more die from drought than over-watering. When the leaves are about a half-inch long, they may be potted singly in thimble pots; and when once they become rooted and established, pot them on as often as they require it, until finally they push up their spikes and develop their blooms.

Sophronitis.

Although this is a cool species, it requires a much warmer temperature to mature from seed to perfection. The following method is a very recommendable one: Take some round blocks of

wood about ten inches in circumference, and cut across the grain to a depth of about half an inch, leaving a rough surface. Make a hole about three-quarters of an inch in diameter in the centre; then place on a layer of crocks in a small pot or pan, making it secure by wedging a few small crocks round the side. Soak with water, and afterwards sow the seed very sparingly all around. Place a piece of glass (which may be supported by a small label on the rim of the pot) above the wood, being careful that the glass is about half an inch above the seed, the latter being kept moist by the use of a fine sprayer for the first three weeks, after which they may be watered with a fine rose. When germination sets in they must never be allowed to become dry, and when large enough to handle, they can be pricked off and placed into small pots, the compost consisting of polypodium fibre and sphagnum moss, finely chopped, with a small quantity of silver sand added. As the plants become stronger they can be removed into fresh pots of the same compost, and potted on as often as they require it until they reach the flowering stage. A temperature from 60 deg. to 65 deg. at all times is beneficial, and should be heavily shaded during the hot summer months.

Phaius.

Splendid crops of this may be obtained by sowing on the surface of pots containing healthy plants of the same species. The plants must be dipped for the first few weeks after sowing, so that the seed is not washed away; and the seedlings may be left where they grow until they are large enough to be placed singly in small pots. A temperature of 60 deg. to 65 deg. by day, and 50 deg. to 55 deg. at night is sufficient.

Sobralias.

Prepare small pans about three-quarters full of sphagnum moss, with all the heads carefully removed. Stretch some coarse canvas over, and water heavily so that it gets well settled. Then sow the seed, place in a temperature of 65 deg. to 70 deg., keep well sprayed, and when large enough to prick off, place into small pans of sphagnum moss with a little peat added. Repot them as often as they require it, each time giving them a little more peat and fibrous loam.

Zygopetalums.

If the seed is sown in pots containing good, healthy plants and the plants watered cautiously, a plentiful supply of seedlings will be obtained. These may be left undisturbed until they are large enough to be placed in thimble pots. A temperature of 55 deg. to 60 deg. during the day and 50 deg. to 55 deg. at night being sufficient. There are many other species, most of which may be obtained by the above-mentioned methods. For instance, *Calanthes* may be raised in the same way as *Phaius*; *Brassavolas* will come up just as freely as *Lælias*; *Thunias* or *Vandas* may be successfully dealt with by the same method as *Sobralias*. Anyone paying a visit to the extensive nurseries of Messrs. Sander & Sons, St. Albans and Bruges, may at various seasons of the year see most of the above modern methods in operation.

WALTER GOTT.

CLEVELAND FLOWER SHOW.

The question has been asked us several times recently regarding the possible change in our plans for conducting the Annual Exhibition of the Chrysanthemum Society of America, in connection with the Cleveland Flower Show this fall. In reply to these inquiries and for the information of the many private and commercial growers who are looking forward to exhibiting in Cleveland this fall, we wish to announce that the Cleveland Show will be conducted in the same manner as we originally planned early in the year.

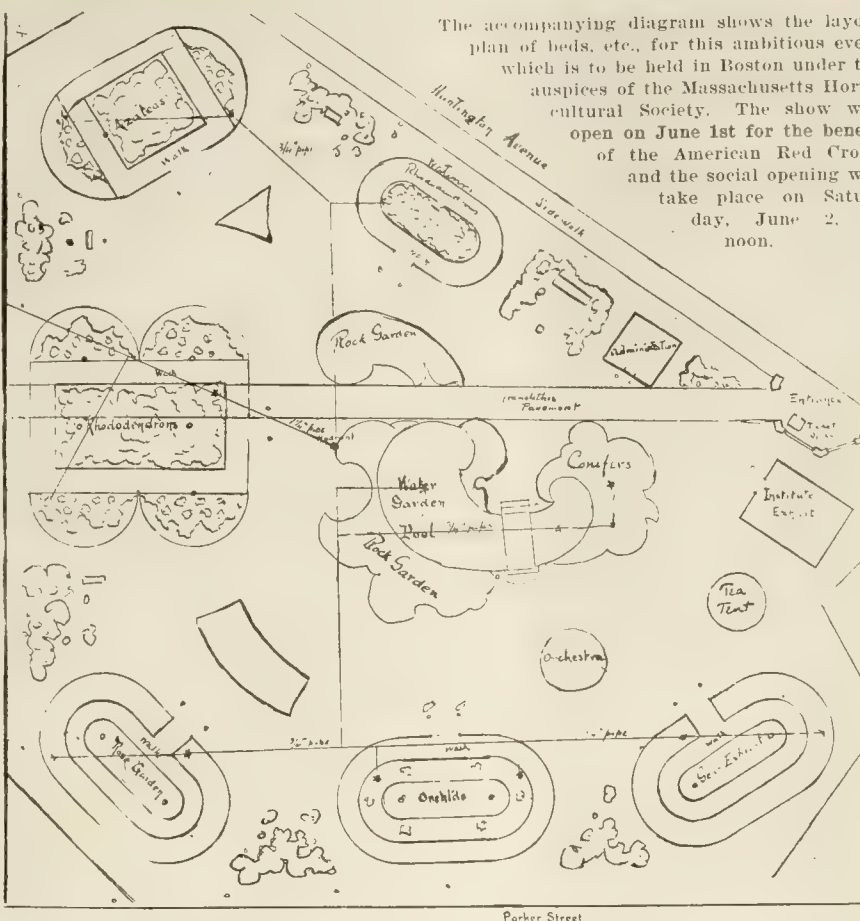
We see no reason at this time to alter our plans; in fact, there is all the more reason for developing flower shows and other activities. In event war conditions develop and are intense in November, at the time of the Cleveland Flower Show the committee will make arrangements with the Red Cross Society and hold the show for their benefit.

At this time the Executive Committee wishes to extend an invitation to all growers to plan on exhibiting in Cleveland. Premium lists may be secured by addressing M. A. Vinson, 402 Leader-News Bldg., Cleveland, O.

H. P. KNOWLE,
Chairman Show Committees.

Worcester, Mass.—Leonard C. Midgley, formerly secretary of the Worcester County Horticultural Society, has been appointed to take charge of the home garden management for the city of Worcester.

BOSTON OUTDOOR JUNE EXHIBITION.



The accompanying diagram shows the layout plan of beds, etc., for this ambitious event which is to be held in Boston under the auspices of the Massachusetts Horticultural Society. The show will open on June 1st for the benefit of the American Red Cross, and the social opening will take place on Saturday, June 2, at noon.

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The Glossary This is an analysis of all technical terms that are used in the work and in similar works. It comprises botanical and horticultural terms with brief definitions.

Translation and Pronunciation of Latin Names In Volume I is inserted a list of between 2,000 and 3,000 Latin words used as species—names of plants, giving the English equivalent or translation and the pronunciation.

Class Articles Special effort has been made to secure the best cultural advices for the plants requiring peculiar or particular handling. Here are some of the titles of these articles: Ants; Autumn Gardening; Bedding; Diseases; Drainage; Floral Designs; Formal Gardening; Hotbeds and Coldframes; Insects; Landscape Gardening; Lawn Planting; Orchards; Rock Gardening; Subtropical Gardening; Tools and Implements; Village Improvements; Window Boxes, etc.

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Obituary

Mrs. Robert Potter.

Mary Jane Potter, wife of Robert Potter, a wholesale florist, died at her home, West Fifty-fifth street, New York City, on April 26.

Fred. Ponting.

Fred. Ponting, a well-known plant grower of Cleveland, Ohio, making specialty of geraniums, died on April 18, aged 53 years. He was a member of the Cleveland Florists' Club. A widow, four sons and one daughter survive him.

Augustus W. Boerner.

Augustus W. Boerner, an old-time retail florist located for many years at Broad and Fourth streets, Philadelphia, died on April 29th, aged about 80 years. He worked for Pen-nock Bros. in the seventies and after retiring from business some years ago lived at the Masonic Home at Elizabethtown, N. J. Interment was at Fernwood Cemetery, Delaware, Co., Pa., May 3rd.

John W. Fink.

John W. Fink of Chicago passed away suddenly in New York City, Thursday, April 26, where he had been spending a few days. A telegram was received by his brother Michael, who immediately left for New York and returned to Chicago with the body on Tuesday. John W. Fink was born in Pullman, Ill., Jan. 6, 1886, and spent all of his short life in Chicago and vicinity. He assisted his father, the late Joseph Fink, in the growing of plants and cut flowers, and at his death, eight years ago, succeeded to the business, at 2632 Herndon street, where he earned for himself the reputation of an excellent grower. He is survived by his widow, three small children, a mother, two brothers and two sisters. The funeral was held on Wednesday and interment was at St. Adalbert's cemetery.

NEWS NOTES.

Dover, Del.—The greenhouses of William Shaeffer were purchased by James H. Hughes at public auction.

Westerly, R. I.—Mark H. Cassidy of Providence has been engaged to supervise the school gardens of Westerly this year.

So. Norwalk, Conn.—The Crofut & Knight Co., hat manufacturers, have purchased the Comstock Dahlia Farm for the use of its employes for vegetable growing.

Northampton, Mass. The greenhouse property of Alexander and Annie Parks has been sold to George E. McIntyre for removal and re-erection at his place in Easthampton.

Westville, N. J.—A fire broke out on April 30 near the greenhouses of Louis C. Duncan, on the Almonesson road, about noon, and destroyed five of the greenhouses, two barns and several smaller buildings, with a loss that will probably reach ten thousand dollars. The fire originated in the barn and a high wind carried the flames to the

greenhouses. Fire departments were summoned from South Westville and Gloucester City. Firemen saved the large dwelling.

Providence, R. I.—The Providence Housewives League is to have a model garden, to be used for demonstrating and instructing women in gardening. It will be about 25 x 50 feet and will be laid out in the most approved way to afford rotation of crops. Mrs. Harold C. Whitman will have charge of the garden, and will be there two mornings a week to give instruction and suggestions as to fertilizing, planting, and caring for crops.

Springfield, Mass.—Charles Adams, of the J. W. Adams Nursery Company, has been appointed a member of the Park Commission to take the place of Dr. Andrew J. Flanagan, resigned. Mr. Adams is treasurer of the J. W. Adams Nursery Company and a son of John W. Adams, who founded the company. Owing to his practical experience in the nursery business he is regarded as likely to be a valuable member of the Park Board and his aptitude in this capacity is shown by the work that he did in beautifying the North End Green, thus showing what the tract hitherto uncared for, was capable of from an artistic point of view.

BEGONIA LUCERNA.

This is said to be a hybrid and one of the finest of the fibrous rooted section, having exceptional merit as a winter bloomer of great beauty and



freedom. The flowers are very large and appear in long pendulous clusters, said by Bailey's Cyclopedia to be often a foot in diameter. Our photograph came from A. L. Miller. Begonia lucerna was introduced in 1903.

Visitors' Register

Rochester, N. Y.—Robert Shoch, Phila., Pa.; Ed. K. Sithens of Bowen Dungan Co., N. Y.

Pittsburgh—George C. Singer, repr. the Botanical Decorating Co., Chicago; Julius Dilloff, New York.

Washington, D. C.—H. Cheeseman, repr. R. M. Ward & Co., New York; Mrs. Harry T. Miller, Alliance, Ohio; Joseph J. Goudy, repr. H. A. Dreer, Phila.

Boston—Theodore Wirth, Minneapolis, Minn.; A. E. Thatcher, Bar Harbor, Me.; J. Urquhart, Newport, R. I.; Walter Gott, repr. Sander & Sons, St. Albans, England; A. C. Godward, Minneapolis, Minn.

Cincinnati—Wm. Rodgers, Dayton, O.; Mr. and Mrs. M. Weber, Brookville, Ind.; Mr. and Mrs. N. Kiger, Marietta, O.; A. Jacobs, repr. Floral Decorating and Importing Co., New York; Sam. Seligman, New York.

Philadelphia—George W. Hess, supt. Botanic Gardens, Washington, D. C., accompanied by U. S. Senator Broussard of Louisiana, a distinguished farmer of that state, now resident in the Federal Capital; Mr. and Mrs. Albert M. Herr, Lancaster, Pa.

Chicago—W. L. Smart, repr. Knight & Struck Co., N. Y.; W. J. Pilcher, Kirkwood, Mo.; Roy Kemble, Oskaloosa, Ia.; W. T. Johnson, Momence, Ill.; Mr. and Mrs. Hennon, Fort Dodge, Iowa; Mr. and Mrs. E. A. Rogers, Woodstock, Ill.; Walter Mott, repr. Hammond's Paint and Slug Shot Works, Beacon, N. Y.; John Nylof and C. H. Jensen, with Swanson's, Inc., Minneapolis, Minn.; Sam Seligman, New York; Julius Dilloff, New York; H. Perstein, Milwaukee, Wis.; A. Hartnett, Grand Rapids, Mich.

PERSONAL.

Miss Elsie Alvilda Bistrup, of Waltham, and Charles Hartley Walker, florist, of Ware, Mass., were married at the bride's home, Saturday afternoon, April 21.

Frank Adelberger, of Wayne, Delaware Co., Pa., is at the Presbyterian Hospital, Philadelphia. He went under the Xrays on the 1st inst. and there will probably be a surgical operation for stomach trouble in the near future. Mr. Adelberger has been a sufferer for about two years.

George Pitfield, who has been in charge of the herbaceous plant department and propagating for the Eastern Nurseries at Holliston, Mass., for the past thirteen years, has bought a farm in Greenwich, Mass., and will go into market gardening.

Malden, Mass.—At the annual meeting of the Park Commission, Wednesday evening, May 2, Commissioner David F. Cosgrove was elected chairman and John G. Tilden re-elected secretary. Daniel E. Connell is superintendent of parks and play grounds. Mr. Cosgrove is a landscape gardener and tree specialist, a valuable man for the board.

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PUBLICATIONS RECEIVED.

The Bulletin of the New York Botanical Garden, Vol. 9, No. 35, has been issued under date of April 10. It includes complete reports of the work of the various departments of activity in the garden for the past year, lists of members, etc., all showing commendable progress in the work of this great institution.

Proceedings of the Sixty-Second Annual Meeting of the Western New York Horticultural Society, held at Rochester, N. Y., January 24-26, 1917. This is a 168-page pamphlet edited and compiled by Secretary John Hall in his usual thorough manner. A portrait of the late president, Wm. C. Barry is used as a frontispiece. A number of very practical papers by eminent pomologists are included and the fruit grower will find this a most readable and instructive book.

STRAWBERRY GROWING. By S. W. Fletcher, Professor of Horticulture at the Pennsylvania State College. The Macmillan Company, publishers, and L. H. Bailey, editor, have placed the horticultural people under further obligations by the publication at this opportune time of this very practical book on a very important and rapidly growing branch of the small fruit industry.

This work is not only a practical guide to strawberry growing but also a sketch of the evolution of the strawberry in North America, from the wilding of Colonial days to its present position as the most cosmopolitan of American fruits, second only to the apple in commercial importance. The volume includes chapters on the early history of the strawberry in the old world and the new, the botany and origin of the cultivated strawberry, the rise of strawberry culture and the different ways in which it is practiced in different parts of the country, with something of an attempt to elucidate the principles that underlie these practices.

The volume adds one more to the popular Rural Science Series which have been issued from time to time. 325 pages, well illustrated. Price, \$1.75 net.

MANUAL OF FRUIT DISEASES. By Lex R. Hesler, A. B., Ph. D., Assistant Professor of Plant Pathology, New York State College of Agriculture at Cornell University, and Herbert Hice Whetzel, A. B., M. A., Professor of Plant Pathology, New York State College of Agriculture at Cornell University. This is the sixth publication in the series of Rural Manuals, under the editorial supervision of Dr. L. H. Bailey. It comprises 462 pages of indispensable information with reference to the common diseases of fruits, prepared primarily for the modern agriculturist, the farmer, the thinking fruit grower, but also of inestimable service to all who have an interest in plant diseases. The fruits are taken up in alphabetical order. The discussion of the diseases proceeds in order of their importance and prominence in the United States. Particular attention is paid to the description and illustration of the symptoms, to the causes and to the generally accepted measures of control.

Technical details are omitted as far as possible and an effort has been made to present the matter in a popular fashion. The price is \$2.00 net. Three more volumes in this series will soon appear—The Manual of Milk Products, which is in press, and the Manual of Home-Making and the Manual of Cultivated Plants, which are in preparation.

THE JOYOUS ART OF GARDENING. by Frances Duncan. Published by Charles Scribner's Sons. The author was for several years garden editor of The Ladies Home Journal and is the author of the popular story, "My Garden Doctor." The book is designed for the use of the amateur in gardening, a most convenient compendium of useful and absolutely reliable information for the owner of a small place who requires instruction and advice in the planting, culture and general care of garden annuals, perennials and shrubs.

We can see how the nurseryman, florist or seedsman could do much toward promoting horticulture in their neighborhood and increasing in a very practical manner the knowledge and demand for garden material among their customers by recommending and offering for sale at all times a book such as this, for it answers the myriad questions that perplex the would-be home gardener in a way that is thorough and readily understood.

There are 27 chapters, some of them written from rather unusual viewpoints, and thus presenting the subject in a fresh and unique light. Up-to-date lists, charts and calendars present in convenient condensed form for ready reference a vast amount of cultural knowledge and this is illumined by 48 line engravings. The book sells for \$1.75 net and it should be a good seller if properly pushed by the retail trade.

STANDARD CYCLOPEDIA OF HORTICULTURE. By L. H. Bailey. Macmillan Company, New York, publishers. This greatest of American horticultural works is at last complete and the sixth and final volume has been delivered. During the several years since the appearance of Volume 1, extended notices have from time to time been given in HORTICULTURE as each successive volume was issued. Author and publisher have faithfully kept their promise made at the beginning and he who has a set of the Standard Cyclopaedia on his book shelf may well feel proud of his possession. Volume 6 includes S to Z alphabetically, pages 3043 to 3639, figures 3516 to 4056, 19 full page plates of which 4 are in color; also supplementary lists of additional species recorded since the work was begun, list of collaborators, cultivators' guide to the practice articles, new combinations in Latin names, finding—list of trade names and an index to the six volumes, of synonyms, vernacular names, and others not in regular alphabetic sequence. Nothing has been left undone to bring this work as near perfection for its purpose as human effort could make it and its author has done an inestimable service for American horticulture. In order that the Cyclopaedia may be within the reach of everyone the publishers have arranged

a plan for payment by installments. This privilege will also be extended to those desiring it who may order the Cyclopaedia through the office of HORTICULTURE. Price, \$36 for the six volumes.

THE BOOK OF THE PEONY, by Mrs. Edward Harding. 44 illustrations in color and black and white. Octavo. Handsome cloth. J. B. Lippincott Company, Net, \$6.00. "The Book of the Peony" appears in response to the large demand for authoritative information—historical, descriptive, practical—on this foremost flower. The peony has grown in popular favor in recent years, and today boasts two national organizations devoted to its cult. This is the first book of its kind ever published and it will undoubtedly enjoy a large sale. It is thoroughly up-to-date in every detail that the grower of peonies, whether amateur or commercial, should know.

Mrs. Edward Harding, the author, is a practical gardener, and her peony garden ranks among the finest in this country. Her thorough knowledge as to the flower is set out in a way at once exact, practical and helpful. She writes with the convincing enthusiasm of the flower-lover, and the complete and detailed information of the expert. Her lists, covering every desirable variety, contain a storehouse of authentic information.

Charmingly written, the book will beguile the flower-lover into giving some portion of the garden to the wonderful effects described and pictured by the author. The preparation of soil, selection of colors and varieties for desired effects, the characteristics of each variety, when and where to plant, cultivation, propagation, how to purchase, extending the period of bloom, are among the topics treated with fullness and exactness. The tree peony is given special attention, also an entire chapter has been devoted to the mythology, ancient and modern history of the peony. References are made to articles on the peony and to books on subjects connected with the peony. A lecture on diseases of the peony delivered by Prof. H. H. Whetzel before the Massachusetts Horticultural Society is reprinted, with his permission, as an appendix.

The volume leaves nothing to be desired in make-up, binding and illustration. It might well be classed among art publications, despite its intensely practical nature. Our garden literature is greatly enriched by this notable addition.

The Page Company, of Boston, always on the spot at this season of the year with light vacation fiction for the young people, present this week an attractive story entitled, "Virginia of Elk Creek Valley," by Mary Ellen Chase, author of "The Girl from the Big Horn Country," to which story it comes as a sequel. It is a story full of life and absorbing interest and abounding in exhilarating wholesome entertainment. The heroine is the same breezy, frank-hearted girl from Wyoming who made so many friends in the previous story. The young lady who has worked faithfully at the flower counter or cashier's desk all winter



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would enjoy reading this book when she goes on her vacation, as a change from wiring carnations and mousing funeral wreaths. Why not buy it for her? Only \$1.50 postpaid. 298 pages. 7 full page illustrations, frontispiece in colors. Messrs. Page have also just sent out a nice little book in the Cosy Corner Series by Alice E. Allen, entitled "Rosemary," just right for the twelve-year-olds. 96 pages. Price 50c.

And lastly comes a novel for the more mature ladies to enjoy during their hours of leisure, "A Place in the Sun," by Mrs. Henry Backus, author of "The Career of Dr. Weaver," "The Rose of Roses," etc., has just appeared. The heroine is a very much alive young person with a zest for life and looking-forward philosophy which helps her through every trial. She is sustained in her struggles against the disadvantage of her birth by a burning faith in the great American ideal—that here in the United States every one has a chance to win for himself a place in the sun. She takes for her gospel the Declaration of Independence,

only to find that, although this democratic doctrine is embodied in the constitution of the country, it does not manifest itself outwardly in its social life. Romance, sentiment and philosophy in liberal measure and enough adventure to make it fascinating, enter into this new novel of American life. Sells for \$1.35 net.

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Rocky River, O.—Ohio Greenhouse Co., four Foley houses each 36 x 500.

Madison, N. J.—Duckham-Pierson Co., five Hitchings houses each 60 x 500.

New York City—William Nilsson, 232nd St. and Carpenter Ave., Bronx, house 41 x 100; Lord & Burnham contract.

New Haven, Conn.—Charles Munro, retail florist, is building a garage of concrete construction, 30 x 40 x 20, on Chapel St.

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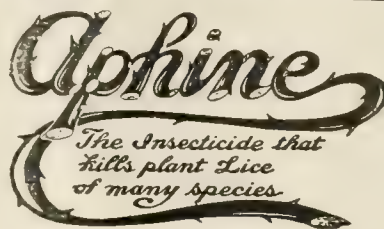
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1,222,946. Vine Cutter. Mathew J. Harrison, Whigham, Ga.

1,222,794. Orchard Heater. John L. Quinn, Los Angeles, Cal., assignor to Standard Oil Company of California.

A movement has been started in Baltimore to raise a fund of \$10,000 for the purpose of getting possession of the considerable quantities of seeds needed and letting the farmers have what they need on easy terms. C. J. Bolgiano is one of the subscribers to this fund, to the amount of \$1,000. Recommendations from the agent and the committee will be accepted by the extension service at the college, which is in charge of Prof. Thomas B. Symons.



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The Outlook for Food Crops.

The Missouri College of Agriculture has issued a number of emergency publications within the last six weeks. As soon as war became evident, all forces of the college were directed to assisting farmers in meeting the demands for food. Two Experiment Station bulletins, two Extension posters, four Extension circulars, and thirteen emergency leaflets have been issued. Several bulletins and circulars have been reprinted and a number of new circulars and leaflets are in preparation.

According to Dean F. B. Mumford, over-production is exceedingly improbable this year. It has been agreed that this country's part in the war will be largely to supply food. "Our food resources have been depleted by shipments to Europe and by several poor crop years," said Dean Mumford recently, "and now with unrestricted export to the Allies, the small reserve which we have will be further decreased. Any surplus which the American farmers can produce will be quickly absorbed at war time prices. Millions of people in England, France and other countries at war with the German powers are in need of food. They must have food not only for their civil population but for their armies. They are too busy fighting to provide that food themselves. It then behooves the United States to supply food.

"But it is not alone for the Allies that we must produce maximum crops. If we should have a poor crop year throughout the country, our own people may actually suffer."

"If Germany is able to continue the ruthless submarine warfare unhindered, some food will be lost on its way to Europe. Consequently the losses will tend toward a further shortage and to absorb any surplus even if there were danger of over-production."

What would happen if peace should come within the next few weeks? Would not the markets be glutted? In answer to these questions, Dean Mumford said: "It is doubtful if there will be a great decrease in the demand for food immediately following the war. With commerce restored, every nation which is now at war will become a market place for American farm produce. Those countries have no food reserves left and they will turn to the United States to furnish food during reconstruction and until they can feed themselves."

As an example of the actual scarcity of food in America, Dean Mumford cited the condition of wheat: "In 1915 the United States produced 10 bushels of wheat per capita; in 1916 we produced 6 bushels per capita, but used 6½ bushels for seed and ordinary consumption and exported 2½ bushels

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per capita. The present condition of wheat in the United States is 63 per cent of a normal crop. This is 23 per cent below the average for the last ten years. The condition in Missouri is even worse—59 as compared with the 15-year average of 85 per cent. The latest reports are that the world crop of wheat is far below average."

Notes.

Tampa, Fla.—H. F. Reils, formerly vice-president of the Allen & Reils Seed Co., will enter the seed business in his own name in this city August 1.

St. Albans, Vt.—Nearly all the hotels and restaurants of this city have promised to save the eyes from potatoes so that they may be used for seed, the labor and purchasing committee of the War Relief Association has announced. Seed potatoes throughout the state are selling at present from \$2 to \$4 a bushel.

There is a tremendous demand especially in the eastern section of the country for soy beans for packing and planting. Only the yellow seeded varieties are used for food, taking the place of navy beans in baked pork and beans. Soy beans are now selling at \$3.50 to \$4.00 a bushel, double the usual price.

Charles J. Bolgiano, of the seed firm of J. Bolgiano & Son, has been appointed to serve on the Farm Labor Committee of the Maryland Preparedness and Survey Commission. The object of this Commission is to better

the condition of the Maryland farmers and to finance their crops wherever necessary.

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This campaign of advertising involved a great deal of expense, and as same is for the general good of the trade at large, every one should subscribe towards this enterprise.

Florists who have purchased other Mothers' Day stamps should also contribute as our national magazine advertisement combines with every special form of Mothers' Day advertising, consequently every one in the trade will profit thereby, and, therefore, every one should subscribe.

Growers, wholesalers and retailers who have not as yet sent in their contributions, should do so promptly. Make all checks payable to O. H. Amling, treasurer, and forward same to F. Lautenschlager, 440 W. Erie street, Chicago, Illinois, chairman.

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Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Cleveland, O.—Adam Graham & Sons, 5523 Euclid Ave.
Cleveland, O.—Knoble Bros., 1836 W. 25th St.
Cleveland, O.—The Smith & Fettes Co., 735 Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Ave.
Houston, Tex.—Kerr, The Florist.
Kansas City, Mo.—Samuel Murray, 1017 Grand Ave.
Los Angeles, Calif.—Howard & Smith, 853 So. Olive St.
New London, Conn.—Reuter's.
New York—J. H. Small & Sons, 505 Madison Ave., at 52d St.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 611 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—A. T. Bunyard, 413 Madison Ave., at 48th St.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Max Schling, 22 W. 59th St.
New York—G. E. M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.
St. Louis, Mo.—F. H. Weber's, N. E. corner of Taylor and Olive Sts.
St. Paul, Minn.—Holm & Olson, Inc.
Tarrytown-on-Hudson, N. Y.—F. R. Pier-son Co.
Toronto, Can.—J. H. Dunlop, 8-10 West Adelaide St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—George H. Cooke, Connecticut Ave. and L St.
Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop, 22 Pearl St.

Send Telegraph, Telephone or Mail orders
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Los Angeles, Calif.

Every Order sure to receive
prompt and careful attention.

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For Quality and Promptness
4 PARK ST. - - BOSTON

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Telegraph
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STORES IN

New London and Norwich, Conn.
and Westerly, R. I.

We cover the territory between
New Haven and Providence

ST. LOUIS, MO.

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4326-28 Olive St.

Member Florists Telegraph Delivery Association
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CLEVELAND

Euclid Avenue

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TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

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8-10 West Adelaide St. - TORONTO, ONT.
ALBANY, N. Y.

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Flowers or Design Work
DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER
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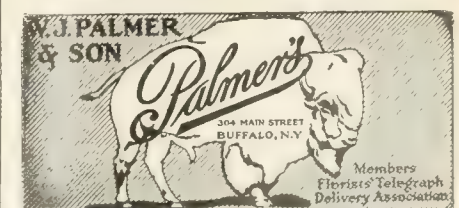
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Orders for the TWIN CITIES and for all
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Members Florists' Telegraph Delivery.
DENVER, COLORADO



KERR ORDERS FOR TEXAS
HOUSTON, TEXAS
The Florist Member F. T. D. Association

NEWS ITEMS FROM EVERYWHERE

PITTSBURGH.

Mr. and Mrs. DeForest W. Ludwig returned home last Sunday from Los Angeles.

Ernest R. Bolton has resigned from his position as first assistant to A. A. Leach of "Greenlawn," the residence of Henry J. Heinz, which he has filled for the past two years.

Thomas Edward Tyler, superintendent of Charles D. Armstrong's East End estate, has at present one of the finest private exhibits of calceolarias ever seen in this section.

Four trees were planted this week by the Woman's Civic Club of Wilkesburg around the Lincoln monument in Penn. avenue. One of the trees has been named for C. L. Coones, tree commissioner.

The Horticultural Society of Western Penn. is arranging for an open session on Tuesday evening, the fifteenth inst., in the interest of amateur gardeners, who are cordially invited to be present and ask advice on their respective problems.

Mr. and Mrs. Gilbert P. Weaklen have undergone the deepest grief that can come to parents in the death of their little two-year-old son, Norman Francis. They have the sincere heartfelt sympathy of a large circle of friends and acquaintances in their sorrow.

Judging by the present prospects of the coal situation, there will be a number of small dealers forced out of business next year. In going from one place to another one hears little but coal talk, dealers only contracting until October, and at that for not less than four dollars per ton.

James Watt, proprietor of the Highland Floral Company on the Alexander R. Peacock estate, has engaged Albert A. Brown as foreman. Mr. Brown, who for some time has been with the John Bader Co., has had a wide range of experience in commercial work, having seen extended service with the Pittsburgh Cut Flower Co. and the McCallum Co.

Nicholas Cassalucia, long confined to the house with an attack of bronchitis, is again able to resume his work as supervisor of the landscape features for the Penn. R. R. between Pittsburgh and Scottdale. Owing to the scarcity of laborers and material, Mr. Cassalucia finds it impossible to carry out the improvements contemplated for this spring.

The War Farms Gardening Commission has been organized with headquarters at 541 Wood street. It is under the regime of Mayor Joseph G. Armstrong, chairman; William Price, treas.; Roy D. Schooley, sec.; the committee chairmen including Hon. William Flinn, executive; J. Dawson Calhery, finance; W. F. Ashe, agriculture; H. P. Hass, real estate, and Harvey D. Smith, publicity. Mr. Ashe has charge of the garden work for the Pittsburgh Board of Education.

Owing to the general unsettled con-

ditions, the Garden Club of Allegheny County has decided to "call off" its June Flower Show in Motor Square Garden. The decision is a keen disappointment to those members of the organization who were in favor of continuing the work and devoting the proceeds to the American Red Cross. Many had already expended large amounts in preparation for the event and their gardeners were actively preparing to exhibit, as were also many commercial florists and landscape men.

David Fraser is spending a fortnight in New York supervising planting and other landscape improvements on the Fifth avenue estate of Henry Clay Frick. Hereafter throughout the season Mr. Fraser will make fortnightly trips to supervise the care of these grounds. Roderick Fraser, his first assistant on the Pittsburgh estate grounds, has resigned to accept a similar position on the Woodland Road estate of Andrew W. Mellon. James Stuart, formerly with Edward A. Woods of Sewickley Heights, is in charge of these grounds.

WASHINGTON, D. C.

Conferences on drug plant growing are being conducted in Richmond, Va., by A. F. Sievers, chemical biologist in the bureau of plant industry. Mr. Sievers is also consulting with officials of the Richmond Pharmaceutical College in the matter of growing these plants.

Local growers are very uneasy concerning the existing coal situation, and all who can do so are putting in as much fuel as the dealers will sell them. Fear has been expressed that the existing shortage of coal may become more aggravated by lack of transportation facilities, labor disaffection, etc., and that possibly the florists may suffer heavy losses.

May 29 and 30 are the tentative dates set for the Brookland rose show. This is an annual event, a very creditable one, which attracts widespread attention throughout the city. Every effort is being made to have this exhibition the equal of those of preceding years despite various difficulties under which the members of the Brookland Society are laboring.

ST. LOUIS.

Planting out and opening of summer gardens will be late here this year.

The display of tulips at Missouri Botanical Garden was the feature all last week.

The monthly meeting of the Florist Club comes second Thursday in the month at 11 Mile House.

Mothers' Day is being advertised by the retailers, hangers in the windows and other places being liberally displayed.

The rare *Cypripedium Boltoni* Sanderae, a white-flowered type, has been donated to the Missouri Botanical Garden's orchid collection by D. S. Brown, of Kirkwood, Mo.

CHICAGO.

A. Miller, president of the American Bulb Co., is on a business trip in the east.

Frank Oechslin returned May 1st from a brief visit to Philadelphia and New York.

The J. A. Budlong Co. is finding the volume of business so great that an adding machine is about to be added to the necessary office equipment.

R. A. Brenton, publicity manager for various florists' enterprises, has enlisted with the machine gun corps. The two brothers of J. E. Pollworth are also among those who have enlisted.

Orders are coming in rapidly now for Mothers' Day. So far they are confined exclusively to carnations but all wholesalers expect a good demand for all kinds of flowers as the day draws nearer.

News of the sudden death of John W. Fink, 2632 Herndon street, which occurred in New York City, April 26th, was heard with regret by his friends in the trade. Obituary notice will be found on another page.

E. C. Amling Co. is specializing in novelties and his collection of anemones, ranunculuses and Shirley poppies is very attractive. There is always a call for something new and novelties are always welcome and sure to sell.

Allie Zech, of Zech & Mann, who always lends a hand when there is anything to be done, has disposed of ten thousand Mothers' Day posterettes. This is the kind of men that keeps business moving both in peace and war.

Frank E. MacFarland enlisted in the U. S. Marine Corps and left Chicago, May 1st, for a few days in his home town, down state, when he will report for duty in the east. Mr. MacFarland has been for some time with Frank Oechslin.

The American Bulb Co. has secured additional floor space and now have a large and conveniently arranged room with three entrances. Aside from their regular lines, they are selling Burpee's seeds at retail, in which field they are doing well. The attractive window display stops many passers-by.

J. E. Pollworth, manager of Kennicott Bros., has just returned from a trip to the south, which included stops in Mississippi, Tennessee, Kentucky and Arkansas. One special object of the trip was to look into the peony situation which he reports to be most favorable. The first cut of the season was received by this firm May 1st. Mr. Pollworth is looking for \$50,000 worth of business in peonies in May for his firm.

Northampton, Mass.—Fifty students from the horticultural classes in the department of botany are to give four hours each Saturday for the remainder of the term to supervision of gardens cultivated by children of the public schools of the city.

AFTER EASTER

Weddings — Mothers' Day — Memorial Day

Fill up your Show Cases and Shelves with another nice stock of Bayersdorfer Baskets and other Seasonable Supplies. We have splendid novelties and all the standard goods in endless variety, Home Manufacture and Imported.

SEND FOR CATALOGUE AND PRICES

and see how much you can do with a little money when you go straight to headquarters—*The Florists' Supply House of America.*

H. BAYERSDORFER & CO.

Manufacturers and
Importers

1129 Arch Street, PHILADELPHIA, PA.

Write for
Catalogue

NEW YORK.

R. M. Ward is on his way to Japan and expects to be away for six months or longer.

Smith & Hemenway Co., Inc., have removed to Irvington, N. Y. They will have a local sales office at 261 Broadway.

The International Garden Club is planning for a fete to take place May 12 at Pelham Bay Park. Provision will be made for flower and plant exhibits.

The New York Herald recently devoted quite a portion of the priceless space on its front page to the tale of a nursery firm in Dansville, N. Y., which offers 200,000 fruit at the bargain price of 10 cents apiece to the people. Some 113 nursery firms are listed in Dansville in the latest trade directory but none of them under the name so munificently advertised by the N. Y. Herald, so "the mystery deepens."

BOSTON.

The bill to authorize the incorporation, without capital stock, of agricultural and horticultural organizations was ordered to a third reading, 15 to 5, in the Massachusetts Senate.

The first consignment of potatoes to plant the gardens in Franklin Park, being conducted under the direction of city officials, has arrived in Boston. Large automobile trucks on hand at the North station freight yards carried the 700 bushels to the park for distribution.

"No expensive dresses for sweet girl graduates will be noted at the Cambridge school commencements this year, according to Superintendent of Schools Fitzgerald. The presentation of flowers will also be deleted from the graduation exercises, and the programme itself will be limited to patriotic numbers. This action has been taken because of the war and the necessity of practising strict economy."

It is computed that there was a de-

ficiency in the rainfall in this section since January 1 of 2.95 inches as compared with the normal rainfall. The cherry trees, usually in full bloom May 1 are still bare and with several inches of snow blanketing parts of our neighboring states—Maine and New Hampshire on May day, the spring of 1917 seems quite determined to hold on to its record of a cold and late season.

ROCHESTER, N. Y.

Mrs. E. C. Armbrust has returned from New Britain, Conn.

Dewey Lester is again with the Rochester Floral Co.

James Vick & Sons Seed Co. report an enormous demand for vegetable seeds.

Highland Park Conservatory has a wonderful display of cinerarias, genistas, etc., which attracts a large number of visitors.

Seth T. Bush, president of the New York Horticultural Society, has been appointed director of the food supply and machinery control of New York state.

J. B. Keller Sons have a pretty table decoration in their store, including a fountain and table novelties. Edwin C. Kaelber, Inc., are displaying some very fine varieties of Japanese iris.

Florists visiting or passing through Buffalo will now have another irresistible incentive for staying a while, in the new store of W. J. Palmer & Son on Delaware avenue. It is a shining example of up-to-the-minute flower store equipment. With an area of 30 x 100 ft. floor space, supplemented by a 25 x 75 ft. conservatory with fountain and basin and every luxury and finish in equipment that liberality and ingenuity can possibly devise, Mr. Palmer has in this latest achievement added another lustrous page to the history of the good old house established by his father and so worthily continued by himself. W. H. Grever will have charge of the new store.

Flower Market Reports

There has been a considerable slump in business this week and trade is very quiet. Bright weather has brought along a great quantity of stock and prices are uniformly low with many sacrifice sales made in order to clear stock. Notwithstanding the general complaint of the high cost of living, roses and carnations are holding up well. The quality of the carnations is good. Bulbous stock is plentiful and includes some very good Darwin tulips. Fine hydrangeas are on the market and sell well. Bedding stock is moving slowly. The beautiful long spiked snapdragons sent in by David Scott of Corfu are very popular and sell quickly. Calendulas and mignonette are also very good.

WASHINGTON There was an oversupply last week and prices on some things dropped very materially. Roses, however, tightened up and prices on these jumped. The sale of orchids and lily of the valley has continued good. Lilies and gladioli cannot be moved. Some very good Spanish iris have sold well. Peonies in several varieties have already made their appearance, and because of their new arrival do not remain in the wholesale houses long. Business in both the wholesale and retail establishments has continued good, the cold weather being a great help.

(Continued on Page 595.)

With the slogan: "Help Your Country—Raise Your Own Crops," Governor Beeckman has launched again his successful prize garden contest for the mill villages of Rhode Island, in which he offers three prizes to be awarded during the fall of the year. The prizes are divided into three classes. For village improvement, a flag and flagpole are offered; for a home garden, a first prize of a silver cup and \$10 and a second prize of \$5; for a vegetable garden, the same.

BEAUTIES

as we can furnish you give satisfaction
and at our price is profitable stock
for you to handle.

THE LEO NIESSEN CO.

Wholesale Florists

1201-05 Race Street,

PHILADELPHIA, PA.

To Cut Flower Growers and Retail Florists

IF YOU

want to find a market for your
product

want a regular or special supply
of the product of the best
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The Advertisers Represented Here are the Leading
Concerns in the Wholesale Flower Trade

EDWARD REID WHOLESALE FLORIST

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CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

Philadelphia Wholesale Florist Exchange

ROSES OUR SPECIALTY

A trial order will convince you
1615 Kanstead St., PHILADELPHIA, PA.

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$2.00. 50,000...\$8.75. Sample free.
For sale by dealers.

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RICHMOND, IND.

Please mention Horticulture when writing.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

264 RANDOLPH ST., DETROIT, MICH.

The House for Quality and Service

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We are Wholesale Florists Doing
a Strictly Wholesale Business

30 East Randolph Street, CHICAGO



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Supply of Best Cut Flowers all the Year Around
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If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut Flower Market

Daily consignments from leading growers Full line of Florists' Supplies Write for quotations before ordering elsewhere

262B DEVONSHIRE ST., BOSTON, MASS.
Telephone, Main 6267-6268

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON May 3		ST. LOUIS April 30		PHILA. April 30	
Roses						
Am. Beauty, Special	20.00	to 30.00	.....	to 30.00	35.00	to 30.00
" " Fancy and Extra	10.00	to 15.00	20.00	to 30.00	15.00	to 20.00
" " No. 1 and culls	3.00	to 10.00	3.00	to 6.00	4.00	to 12.50
Russell, Euler, Mock	2.00	to 12.00	3.00	to 15.00	3.00	to 20.00
Hadley	2.00	to 18.00	6.00	to 12.50	3.00	to 12.00
Arenberg, Hoosier Beauty	1.00	to 6.00	.....	to	3.00	to 10.00
Ward	1.00	to 6.00	2.00	to 4.00	2.00	to 6.00
Killarney, Radiance, Taft	1.00	to 6.00	1.00	to 2.00	1.00	to 8.00
Ophelia, Sunburst, Hillingdon	1.00	to 8.00	2.00	to 5.00	2.00	to 10.00
Key	1.00	to 6.00	.....	to	3.00	to 10.00
Carnations	2.00	to 3.00	.50	to 2.00	1.00	to 3.00
Cattleyas	30.00	to 75.00	.....	to 50.00	50.00	to 75.00
Dendrobium formosum	.....	to 50.00	.....	to .....	.....	to
Lilies, Longiflorum	4.00	to 8.00	6.00	to 10.00	6.00	to 8.00
Lilies, Speciosum	.....	to .....	.....	to .....	.....	to
Callas	4.00	to 8.00	6.00	to 10.00	6.00	to 10.00
Lily of the Valley	4.00	to 6.00	4.00	to 5.00	4.00	to 8.00
Snappedragon	3.00	to 6.00	.....	to	2.00	to 10.00
Daffodils	.50	to 1.00	1.00	to 1.00	1.00	to 2.00
Narcissi, Paper White	.....	to .....	.....	to .....	.....	to
Roman Hyacinths	.....	to .....	.....	to .....	.....	to
Freesia	.....	to .....	.....	to .....	.....	to
Tulips	1.00	to 2.00	2.00	to 4.00	.....	to
Calendulas	1.00	to 2.00	1.00	to 2.00	1.00	to 3.00
Sweet Peas	.25	to 1.25	.20	to .40	.25	to 1.00
Violets	.....	to .60	.....	to .....	.35	to .50
Marguerites	1.00	to 2.00	.....	to .....	.50	to 1.50
Gardenias	2.00	to 25.00	.....	to	3.00	to 15.00
Adiantum	1.00	to 1.50	.....	to 1.00	1.00	to 1.50
Smilax	12.00	to 20.00	12.00	to 15.00	20.00	to 25.00
Asparagus Plumosus, & Spreng. (100 Bchs.)	25.00	to 35.00	to 25.00	25.00	to 50.00

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J.A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

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GROWER OF

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LILIES

In good supply and splendid quality;
crisp, well grown flowers

\$6.00, \$8.00 and \$10.00 per 100

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Franklin & St. Paul Sts.

WASHINGTON
1216 H St., N. W.

Flower Market Reports

BOSTON Stocks shortened up materially at the close of last week and while there is no flurry on any line yet the situation looks more satisfactory and prices are much more stable than they were at the time of our last report when the tables in the wholesale markets were burdened with about everything in the line of flowers and no takers to be found. There are still large quantities of daffodils, pansies, snapdragon and sweet peas that hang fire and lilies are still a surplus but roses and especially carnations have distinctly graduated from the bargain counter class and we hope they will soon have company.

BUFFALO For the past two weeks this market has been in bad condition. The supply on everything along the line has been overplentiful and the outlets absolutely closed. The inclement weather on Friday and Saturday of the past week helped to check the heavy supply, and on Saturday, 28th, to Tuesday, inclusive, things have brightened up and sales and conditions are again quite satisfactory. Weddings have been stirring up a bit and other floral work has helped to consume a good portion of the surplus. It is hoped that better reports can be made throughout the month of May.

CHICAGO A great change has come over the market during the past week. Instead of a glut there is only enough of most kinds of stock to go around. The shortening up is especially noticeable in roses and carnations, and the buyer no longer is able to fix the price. The change is due to continued cold weather which is keeping stock back and also to the fact that many plants are beginning to be off crop. There are some of the best Mrs. Russell of the season seen in the market now. Lilies

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI April 30	CHICAGO April 30	BUFFALO April 30	PITTSBURG April 30
Roses				
Am. Beauty, Special.....	33.00 to 40.00	25.00 to 30.00	20.00 to 25.00	25.00 to 30.00
“ “ Fancy and Extra.....	20.00 to 30.00	20.00 to 25.00	15.00 to 20.00	18.00 to 20.00
“ “ No. 1 and culls.....	8.00 to 15.00	4.00 to 10.00	3.00 to 5.00	12.00 to 15.00
Russell, Euler, Mock.....	6.00 to 15.00	4.00 to 25.00	8.00 to 12.00	6.00 to 10.00
Hadley, Euler, Mock.....	6.00 to 15.00	..... to	4.00 to 8.00	..... to
Arenberg, Hoosier Beauty.....	5.00 to 12.00	2.00 to 8.00	3.00 to 8.00	6.00 to 12.00
Ward.....	4.00 to 8.00	2.00 to 10.00	2.00 to 6.00	..... to
Killarney, Radiance, Taft.....	4.00 to 10.00	2.00 to 10.00	3.00 to 6.00	4.00 to 12.00
Ophelia, Sunburst, Hillingdon.....	6.00 to 12.00	..... to 10.00	3.00 to 6.00	6.00 to 15.00
Key.....	..... to .....	..... to	8.00 to 10.00	..... to
Carnations	2.00 to 3.00	2.00 to 4.00	1.50 to 3.00	3.00 to 4.00
Cattleyas.....	..... to 50.00	75.00 to 100.00	40.00 to 50.00	60.00 to 75.00
Dendrobium formosum.....	..... to .....	..... to .....	..... to .....	..... to
Lilies, Longiflorum	10.00 to 12.00	8.00 to 12.00	8.00 to 10.00	8.00 to 10.00
Lilies, Speciosum.....	..... to .....	..... to	3.00 to 4.00	..... to
Callas	8.00 to 10.00	6.00 to 10.00	6.00 to 10.00	..... to
Lily of the Valley.....	..... to 6.00	5.00 to 6.00	6.00 to 7.00	4.00 to 6.00
Snapdragon	6.00 to 10.00	6.00 to 10.00	4.00 to 8.00	4.00 to 8.00
Daffodils	2.00 to 3.00	2.00 to 3.00	1.00 to 2.00	..... to 2.00
Narcissi Paper White.....	..... to 3.00	..... to	1.00 to 2.00	..... to
Roman Hyacinths	2.00 to 3.00	..... to	1.00 to 2.00	..... to
Freesia.....	..... to	2.00 to 3.00	2.00 to 3.00	..... to
Tulips	2.00 to 3.00	2.00 to 3.00	1.00 to 2.00	..... to
Calendulas	2.00 to 3.00	..... to 2.00	1.00 to 2.00	..... to 4.00
Sweet Peas	50 to 75	50 to 1.00	50 to 1.50	50 to 2.00
Violets.....	..... to .....	..... to	30 to 50	..... to
Marguerites	75 to 1.00	50 to 2.00	1.00 to 1.50	1.00 to 3.00
Gardenias.....	..... to	15.00 to 20.00	10.00 to 15.00	..... to
Adiantum.....	..... to 1.00	1.00 to 1.25	..... to 1.00	75 to 1.25
Smilax.....	..... to 15.00	15.00 to 25.00	..... to 15.00	..... to 15.00
Asparagus Plu. & Spren. (100 Bhs.)	25.00 to 40.00	25.00 to 50.00	25.00 to 35.00	30.00 to 50.00

left from Easter are nearly through and few, if any, went to waste. Darwin tulips are still seen in considerable quantity but some of the largest growers are now through for the season. Sweet peas clean up well each day. A good collection of miscellaneous stock is offered, including snapdragons, iris, marguerites, calendulas, anemones, poppies, pansies, etc.

CINCINNATI Business has assumed a much firmer tone than it had for several weeks. Supplies are not as

large as they were, while the demand is good. Prices, too, are better. Shipping business is excellent. The rose and carnation supply is much smaller and now sells up pretty well. Sweet peas meet with a pretty fair market. Lilies and callas, also snapdragons, are very plentiful. Some excellent poeticus, iris and outdoor tulips may be had. The first peonies were in last week. Other offerings include gladioli, lily of the valley, orchids, lilacs and marguerites.

(Continued on page 597)



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Wholesale Cut Flowers

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Leucothoe, Palmetto, Cycas, both fresh
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ROSES AND CARNATIONS	Last Half of Week ending April 28 1917		First Half of Week beginning April 30 1917	
American Beauty, Special	20.00	to 25.00	20.00	to 30.00
" " Fancy and Extra	12.00	to 15.00	12.00	to 15.00
" " No. 1 and culls	4.00	to 8.00	4.00	to 8.00
Russell, Euler, Mock	1.00	to 8.00	3.00	to 8.00
Hadley	3.00	to 25.00	3.00	to 25.00
Arenberg, Hoosier Beauty	.50	to 6.00	1.00	to 8.00
Ward	.50	to 6.00	1.00	to 8.00
Killarney, Radiance, Taft	.50	to 6.00	1.00	to 8.00
Ophelia, Sunburst, Hillingdon	.50	to 6.00	2.00	to 8.00
Key	1.00	to 8.00	1.00	to 8.00
Carnations	1.00	to 2.00	1.00	to 3.00

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Telephones, 13-8510 Madison Square Consignments Solicited
MAURICE L. GLASS, Treasurer

Flower Market Reports

(Continued from page 505)

NEW YORK This market, in accord with the rest of the country, shows a much healthier tone than it did for the past two weeks, and a continuance of the present cool and overcast weather will help materially to bring about a better balance between supply and demand. The reason for whatever improved conditions there may exist lies not so much in a better call for the goods as in a shortened supply, due in part to the backward weather and in part to the waning of the unprecedented shipments of bulbous flowers. This market has never before been so loaded up with narcissi of all denominations as it has been for the past two months and everything else has suffered to a greater or less extent in consequence. Prices generally have reached a better equilibrium with the shortening up of the surplus, but there is nothing in the situation to warrant any advance, the decrease in bargain lots at sacrifice figures being the principal qualification as compared with last reports. Sentiment among wholesalers and retailers alike leans strongly to the conservative side at the present time.

PHILADELPHIA Early in the week the business here was very slow, with flowers much too plentiful, but it picked up a little later and the wind-up was not so bad. This may have been partly on account of decreased receipts and partly from a little better demand. Perhaps both factors had something to do with it. American Beauty roses were one of the first items to feel the improved condition and by Friday prices on these had hardened up quite considerably. Russell continues of fine quality and is one of the best sellers, as it has been right through the season. Killarneys, Jonkheer and Ophelia are also holding their own pretty well in popular favor. The glut in carnations has eased up a little and things are now in more healthy condition. The best at present are Matchless, Mrs. Ward and Pink Delight. There is no really good red. Even our good standby, Belle Washburn, is not as good as it might be. Sweet peas continue a strong feature—a big supply of very fine flowers, but there has been a considerable let-up in the short-stemmed, low-priced stock. Snapdragon is plentiful and fine but selling only middling. Cattleyas, not many but enough; mostly Mossiae. Violets are over. Lily of the valley is on the scarce side. Peach, cherry, dogwood and other outdoor blossoms are in evidence from nearby points a little to the south. Lily market in bad shape.

PITTSBURGH Stock all around is rather on the scarce side, the crop of roses and carnations having been practically off for a week past, although everything produced is of fair quality. The demands also are fair, the wholesale houses keeping cleaned up right along.

ST. LOUIS There has been a glut of all kinds of flowers, roses and especially carnations. The dry goods houses had

PATRICK WELCH, WHOLESALE FLORIST

262 DEVONSHIRE STREET, BOSTON, MASS.

American Beauties, Orchids, Valley, Carnations. All the novelties in the Cut Flower Market furnished on short notice. Prices quoted on application. No retail orders accepted. Flowers shipped out of Boston on early trains.

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Tel. Farragut 3066

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending April 28 1917	First Half of Week beginning April 30 1917
Cattleyas	15.00 to 40.00	25.00 to 50.00
Dendrobium formosum	..... to 50.00	..... to 50.00
Lilies, Longiflorum	4.00 to 6.00	4.00 to 8.00
Lilies, Speciosum	2.00 to 6.00	2.00 to 6.00
Callas	3.00 to 6.00	3.00 to 6.00
Lily of the Valley	3.00 to 8.00	3.00 to 8.00
Snapdragon	1.00 to 5.00	1.00 to 5.00
Daffodils	.50 to 1.50	.50 to 1.50
Spanish Iris	1.00 to 3.00	1.00 to 3.00
Roman Hyacinths	..... to .....	..... to
Freesia	..... to .....	..... to
Tulips	.50 to 1.00	.50 to 1.00
Calendulas	1.00 to 2.00	1.00 to 2.00
Sweet Peas	.15 to .75	.15 to 1.00
Violets	.15 to .40	..... to
Marguerites	1.00 to 2.00	1.00 to 2.00
Gardenias	3.00 to 25.00	2.00 to 25.00
Adiantum	.50 to 1.00	.50 to 1.00
Smilax	15.00 to 25.00	15.00 to 25.00
Asparagus Plumosus, & Spreng (100 bunches)	15.00 to 35.00	15.00 to 35.00

J. K. ALLEN, WHOLESALE COMMISSION FLORIST

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CUT FLOWERS

IN ANY QUANTITY

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the latter on sale two dozen for 25c. Roses were sold by these houses at 25c. per dozen. The outlook, however, for good stock is not so rosy, and buyers of A 1 stock will, I believe, shortly be looking around. Lilies and lilacs are now plentiful and influence greatly other flowers.

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and are dealers in
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Florists' Requisites

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display Advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

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R. Dysart, 40 State St., Boston.
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APHINE

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APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
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AQUATIC PLANTS

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ASPARAGUS SEED

S. S. Skidelsky & Co., Philadelphia, Pa.
Plumous Nanus.
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ASPARAGUS

Asparagus Plumous Seedlings, \$1.00 per 100, \$5.00 per 1000. Ready May 1st. COL-LINGDALE GREENHOUSES, Collingdale, Pa.

ASTERS

Henderson's Invincible, a fine Aster for cutting and trade pullers for your customers' own planting; separate colors, strong, transplanted plants, prompt shipment; \$5.00 per 1000. Cash. BRILL CELERY GARDENS, Kalamazoo, Mich.

AURICULA PLANTS

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AZALEAS

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BEGONIAS

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" Gloire de Lorraine
" Melior
" Mrs. J. A. Peterson

Cyclamen Seedlings, transplanted, 4 to 8 leaves, ready for 3-inch pots. Price List on application.

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A. Leuthy & Co., Roslindale, Mass.
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Geraniums, Nutt, Ricard, Viald, Buchner, 4-in., \$8.00 per 100. Nutt and Rose Scented, 3½-in., \$6.00 per 100. Germany Ivy, Canna Robusta, 3½ in., \$6.00 per 100. Dracaena Indivisa, 3 in., \$7.00 per 100. Geranium Sallerioi, Coleus Trailing Queen, Begonia Vernon, Blue Ageratum, White Daisy, 3-in., \$5.00 per 100. White Daisy, 4 in., \$15.00 per 100. Cash. F. SOKOL, College Street, Worcester, Mass.

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"King Ideal" Boiler.

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Bulbs of all descriptions. Write for prices.
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Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 1000 for 35c.; 3000 for \$1.00 post-paid. I. L. PILLSBURY, Galesburg, Ill.

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New Chrysanthemum Catalogue.
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Wood Bros., Fishkill, N. Y.
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Peony Dahlia Mrs. Frederick Grinnell.
Stock For Sale.
JOHN P. ROONEY, New Bedford, Mass.

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For Fall or Spring delivery. Wholesale and Retail. Send for Catalogue. NORTHBORO DAHLIA & GLADIOLUS GARDENS, J. L. Moore, Prop., Northboro, Mass.

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White Marsh, Md.
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S. A. Nutt Geraniums, rooted cuttings, \$1.25 per 100, \$10 per 1000; unrooted cuttings, 75c. per 100, \$6 per 1000. W. E. ALLEN, 185 Exchange St., Leominster, Mass.

GLADIOLI

John Lewis Childs, Flowerfield, L. I., N. Y.
New Catalogue.
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LILY OF THE VALLEY PIPS

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NIKOTEEN

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Importers and Growers of Orchids.
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- Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.
- Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.
- HASSALL & CO., Orchid Growers and
Raisers, Southgate, London, England. Im-
mense stock of Cattleyas.

PAINTS AND PUTTY

- The Dwell-Kaiser Co., Buffalo, N. Y.
For page see List of Advertisers.
- Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

PANSY PLANTS

- 200,000 large, stocky (Sept. transplanted),
field-grown blooming pansy plants, Henry
Metz's strain, all salable stock, satisfaction
guaranteed. \$1.25 per 100, \$11.50 per 1000.
Cash. Prompt shipping.
- BRILL CELERY GARDENS,
KALAMAZOO, MICHIGAN.

PETUNIAS

- R. Vincent, Jr. & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

PEONIES

- Peonies. The world's greatest collection.
1200 sorts. Send for list. C. BETSCHER,
Canal Dover, O.
- Complete manuals on the Peony, Iris and
Phlox. 25 cents each in stamps. C. S.
HARRISON, York, Nebraska.

PECKY CYPRESS BENCHES

- Metropolitan Material Co., Brooklyn, N. Y.
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- A. T. Stearns Lumber Co., Boston, Mass.

PIPE AND FITTINGS.

- Kroeschell Bros. Co., Chicago.
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- King Construction Company,
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
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- Metropolitan Material Co., Brooklyn, N. Y.
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PLANT TUBS

- H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

PLANT AND BULB IMPORTS

- Chas. Schwake & Co., New York City.
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- August Rolker & Sons, New York City.
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- McHutchison & Co., New York City.
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PRIMULAS

- William Sim, Cliftondale, Mass.
Hybrid Yellow Polyanthus.
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RHODODENDRONS

- P. Ouwkerk, Hoboken, N. J.
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RIBBONS AND CHIFFONS

- S. S. Pennock-Meehan Co., Philadelphia, Pa.
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ROSES

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- Henry A. Dreer, Philadelphia, Pa.
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- W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
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- A. N. Pierson, Inc., Cromwell, Conn.
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- Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.
- August Rolker & Sons, New York City.
Hardy Roses.
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- ROSES, CANNAS AND SHRUBS.
THE CONARD & JONES COMPANY,
WEST GROVE, PA.

SASH

- Metropolitan Material Co., Brooklyn, N. Y.
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SEASONABLE PLANT STOCK

- R. Vincent, Jr. & Sons Co., White Marsh,
Md.
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SEEDS

- Carter's Tested Seeds.
Seeds with a Pedigree.
Boston, Mass., and London, England.
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- Joseph Breck & Sons, Boston, Mass.
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- J. Bolgiano & Son, Baltimore, Md.
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- A. T. Boddington Co., Inc., New York City.
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- Chas. Schwake & Co., New York City.
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- Mitchell's Seed House, Philadelphia, Pa.
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- W. Atlee Burpee & Co., Philadelphia, Pa.
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- R. & J. Farquhar & Co., Boston, Mass.
Gold Medal Cyclamen Seed.
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- J. M. Thorburn & Co., New York City.
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- Amt. C. Zvolanek, Lompoc, Cal.
Winter Flowering Sweet Pea Seed.
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- S. S. Skideisky & Co., Philadelphia, Pa.
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- Kelway & Son, Langport, England.
Seeds, Selected Strains.
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- W. E. Marshall & Co., New York City.
Seeds, Plants and Bulbs.
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- August Rolker & Sons, New York City.
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- Burnett Bros., 98 Chambers St., New York.
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- Leonard Seed Co., Chicago, Ill.
Seeds and Seed Service.
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SEEDS—Continued

- Roman J. Irwin, New York City.
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- S. D. Woodruff & Sons, New York City and
Orange, Conn.
Garden Seeds.
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- Thomas J. Grey Co., Boston, Mass.
Seeds, Bulbs, Implements.
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- Fottler, Flisk, Rawson Co., Boston, Mass.
Seeds for the Florist
- SHELF BRACKETS**
Metropolitan Material Co., Brooklyn, N. Y.
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SPHAGNUM MOSS

- Live Sphagnum moss, orchid peat and
orchid baskets always on hand. LAGER
& HURRELL, Summit, N. J.

STRAWBERRY PLANTS

- Strawberry Plants, \$2.50 per 1000. Cata-
logue free. BASIL PERRY, Georgetown,
Delaware.

SWEET PEA SEED

- Ant. C. Zvolanek, Lompoc, Calif.
Gold Medal of Honor Winter Orchid Sweet
Peas.
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TREE SURGERY

- Davey Tree Expert Co., Kent, Ohio.

VASES

- H. Bayersdorfer & Co., Philadelphia, Pa.
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VEGETABLE PLANTS

- R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.
- Celery plants, Golden Self Blanching
(French strain), also the grand new Easy
Blanching variety, which is easy to grow;
fine plants, ready for the field, \$2.00 per
1000, or \$8.75 for 5000. Cash. BRILL
CELERY GARDENS, Kalamazoo, Mich.

VENTILATING APPARATUS

- The Advance Co., Richmond, Ind.
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- The John A. Evans Co., Richmond, Ind.
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VERMICIDES

- Aphine Mfg. Co., Madison, N. J.
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WEED KILLER

- Pino-Lyptol Chemical Co., New York.
Pino-Lyptol Weed Killer.
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WHEAT SHEAVES

- H. Bayersdorfer & Co., Philadelphia, Pa.
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WIRED TOOTHPICKS

- W. J. Cowee, Berlin, N. Y.
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WIREWORK

- Reed & Keller, New York City.
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- WILLIAM E. HEILSCHER'S WIRE
WORKS, 264 Randolph St., Detroit, Mich.

WHOLESALE FLORISTS

- Albany, N. Y.
- Albany Cut Flower Exchange, Albany, N. Y.
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- Baltimore
- The S. S. Pennock-Meehan Co., Franklin
and St. Paul Sts.
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For List of Advertisers See Page 575

Est. 1765

Pot Makers for a
Century and a Half

HEWS STRONG RED POROUS POTS

Inc. 1904

World's Largest
Manufacturers

Standard, Azalea, Bulb, Orchid, Fern, Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.

Write for Catalogue
and Discounts
A. H. HEWS & CO., Inc., Cambridge, Mass.

 Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.

WHOLESALE FLORISTS
Boston

 Welch Bros. Co., 226 Devonshire St.
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 Patrick Welch, 262 Devonshire St.
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 H. M. Robinson & Co., 32 Otis St. and 2
Winthrop Sq.
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Brooklyn

 Wm. H. Kuebler, 28 Willoughby St.
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 William F. Kasting Co., 568-570 Washing-
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Chicago

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 Zech & Mann, 30 East Randolph St.
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 Kennicott Bros. Co., 163-65 N. Wabash Ave.
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Detroit

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New York

 H. E. Froment, 148 W. 28th St.
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 W. F. Sheridan, 133 W. 28th St.
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 P. J. Smith, 131 West 28th St.
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 Hentz & Nash, 55 and 57 W. 26th St.
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 Charles Millang, 55 and 57 West 26th St.
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 W. P. Ford, 107 W. 28th St.
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 J. K. Allen, 118 West 28th St.
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 Traendly & Schenck, 436 6th Ave., between
26th and 27th Sts.
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 Paul Meconi, 57 West 28th St.
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 Riedel & Meyer, Inc., 49 West 28th St.
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 George C. Siebrecht, 109 W. 28th St.
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 John Young & Co., 53 West 28th St.
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 M. C. Ford, 121 West 28th St.
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 United Cut Flower Co., Inc., 111 W. 28th St.
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 Guttman & Raynor, Inc., 101 W. 28th St.
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 Gunther Bros., 110 West 28th St.
For page see List of Advertisers.

**STANDARD FLOWER
POTS**

 If your greenhouses are within 500
miles of the Capitol, write us; we can
save you money.

W. H. ERNEST
29th & M Sts., Washington, D. C.

WHOLESALE FLORISTS
New York—Continued

 Henry M. Robinson Co., 55-57 W. 28th St.
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 W. R. Siebrecht, 114 West 28th St.
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 Herman Weiss, 106 West 28th St.
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 J. J. Coan, 115 West 28th St.
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 Joseph S. Fenrich, 51 West 28th St.
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L. B. Nason, 116 West 28th St.

 Frank Millang, 55-57 West 26th St.
York City.
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 The Beechwood Heights Nurseries, Thos.
Young, Jr., Prop., 57 West 28th St.
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Philadelphia

 Leo. Niessen Co., 12th and Race Sts.
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 Edward Reid, 1619-21 Ranstead St.
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 The S. S. Pennock-Meehan Co., 1608-20
Ludlow St.
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 Philadelphia Wholesale Florist Exchange,
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Richmond, Ind.

 E. G. Hill Co.
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Rochester, N. Y.

 George B. Hart, 24 Stone St.
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Washington

 The S. S. Pennock-Meehan Co., 1216 H St.,
N. W.
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New Offers In This Issue
BARGAINS IN BEDDING PLANTS.

 J. L. Chapman, Beverly Farms, Mass.
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**CHRYSA nthemums, Cannas, MIS-
CELLANEOUS PLANTS.**

 Wood Bros., Fishkill, N. Y.
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**FLORIST ESTABLISHMENT FOR
SALE.**

 George Anderson,
51st and Woodland Ave., Philadelphia, Pa.
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SEEDS THAT ARE SCARCE.

 Warren Shinn, Woodbury, N. J.
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DREER'S

 Florist Specialties,
"RIVERTON" Moulded
Garden and Greenhouse
Hose

 Furnished in lengths up
to 500 ft. without seam or
joint.

The HOSE for the FLORIST

 3/4-inch, per ft., 16 c.
Reel of 500 ft., " 15 c.
2 Reels, 1000 ft., " 14 1/2 c.
3/4-inch, " 14 c.
Reels, 500 ft., " 13 c.
Couplings furnished

HENRY A. DREER
714-716 Chestnut St.,
PHILADELPHIA, PA.

WANTS, FOR SALE, Etc.
HELP WANTED
WANTED

 Gardener, Greenhouse Man,
experienced in Fruit. Wages
\$70.00 per month, room and
washing.

B. B. care of Horticulture.

 WANTED—A young man with some ex-
perience to work under glass on private
place near New York City. State age,
wages and references. Address "A. A."
care HORTICULTURE.

 WANTED—For private estate, single man
as first assistant, under glass. Must under-
stand fruit, flowers and pot plants. Wages,
\$70. Convenient place, 15 miles from New
York. Give copies of references and particu-
lars to "S." care of HORTICULTURE.

 WANTED—Head Gardener, married, Eng-
lish, Scotch or Swedish, without family.
Must be thoroughly experienced in green-
house and outside garden. Permanent
situation; cottage provided. Apply in own
handwriting to "B. H. F., Box 1723, Boston.

FOR RENT
On Account of Sickness

 The well known florist establishment of
George Anderson at 51st and Woodland
Ave., Philadelphia.

FOR RENT

 to a responsible party on reasonable
terms as a going concern. Eighteen
greenhouses, covering approximately
fifty thousand square feet, in good con-
dition, steam heated, twelve of which
are planted in roses. The place is espe-
cially desirable for a plant business on
account of its nearness to the center of
the city. Apply to Mrs. George Ander-
son at the above address. Can be seen
at any time.

King Greenhouses

KEEP SUMMER WITH YOU THE WHOLE YEAR ROUND

On account of their sturdy special construction which permits of great strength without the need of heavy shadow casting supports, these houses are so warm and sunny that they are filled with a riot of bloom and fruit when Jack Frost has stripped the garden of its beauty.

The ventilating and heating systems are the result of years of experience in building for professional growers. Things just have to grow in a King.

Ask us for any of the following: Catalogue showing Commercial Type Greenhouses, Catalogue showing Greenhouses for private estates, Catalogue showing Garden Frames and Sash for private estates.

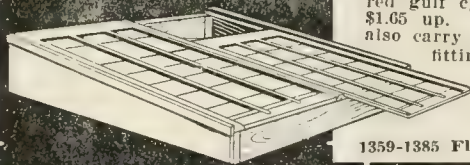
KING CONSTRUCTION COMPANY, 28 King's Road, North Tonawanda, N. Y.

All the Sunlight. All Day Houses.

BRANCH OFFICES: New York, 1476 Broadway Boston, 113 State Street Scranton, 307 Irving Avenue
Philadelphia, Harrison Building, 15th and Market Streets



JACOBS GREENHOUSE SUPPLIES



Hotbed Frames from 80c. up; very best clear red gulf cypress. Glazed Hotbed Sash from \$1.65 up. Double light Sash up to \$4. We also carry glass, pecky cypress, boilers, pipe, fittings, putty, etc.—in fact everything for greenhouse construction. Get our prices today—they're right!

S. Jacobs & Sons

1359-1385 Flushing Ave. BROOKLYN, N. Y.

GULF CYPRESS GREENHOUSE MATERIALS



Manufactured from clear, air-dried, red gulf cypress stock at our own mill with the most modern machinery. Will mill to your own details. An enormous stock on hand at all times for immediate delivery. We can furnish everything necessary for a complete greenhouse, cut and spliced ready for erection. Send for question blank.

PECKY CYPRESS BENCH LUMBER

We carry in stock 1 inch thickness for the bottoms and sides in all widths and lengths and 2 inch thickness ripped for cross pieces and legs.

Send for circular and prices.

PUT YOUR GREENHOUSE PROBLEMS UP TO US.

We go anywhere in the U. S. to submit plans and prices.

Metropolitan Material Co.
PATENTED GREENHOUSES

1297-1325 Flushing Ave., Brooklyn, N. Y.

WE ARE SPECIALISTS IN GREENHOUSE GLASS PAINTS and PUTTY

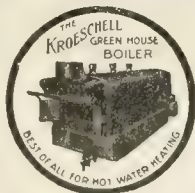
IROQUOIS WHITE (Semi-Paste).
Most Perfect White Paint Made.

Be sure to get our estimates.

The DWELLE-KAISER Co.

241 Elm St., BUFFALO, N. Y.

The Florists Hall Association rate of insurance from Nov. 1st, 1916 to Nov. 1st, 1917 will be twenty cents per hundred square feet of single thick glass and eight cents per hundred square feet of double thick glass. For particulars address JOHN G. ESLER, Sec., Saddle River, N. J.



If you need a boiler in a hurry telephone or telegraph at our expense

KROESCHELL BOILERS

SEND FOR CATALOG

Kroeschell Bros. Co., 466 W. Erie St., Chicago



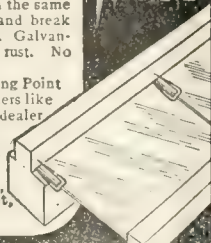
Dreer's Peerless Glazing Points For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.

The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid. Samples free.
HENRY A. DREER,
714 Chestnut Street,
Philadelphia.

FULL
SIZE
NO. 2



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Trademarks
and Copyrights

Difficult and rejected cases specially solicited. No misleading inducements made to secure business. Over 30 years' active practice. Experienced, personal, conscientious service. Write for terms. Address,

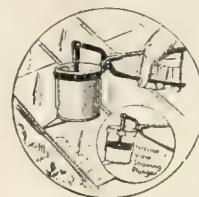
SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

THE ONLY PERFECT LIQUID PUTTY MACHINE

WILL LAST A LIFETIME, \$1.25 each



The frame is malleable iron and the can is removable. Easy to operate.

"SEAL TIGHT LIQUID PUTTY"

will not harden, crack or peel off.
\$1.35 per gallon in 10 gallon lots.
\$1.40 per single gallon.

Metropolitan Material Co.
PATENTED GREENHOUSES

1297-1325 Flushing Ave., Brooklyn, N. Y.

In Writing to Advertisers kindly mention Horticulture

JACOBS BUILT TO LAST GREENHOUSES

The strong, simple construction of Jacobs Greenhouses enables us to keep costs down to a minimum, without affecting durability or utility. In commercial greenhouse building, especially, where costs must be carefully considered, we honestly believe we can give you a "bigger dollar's worth" than the average. Backed by half a century's experience. Write for estimates—today!

S. JACOBS & SONS

1359-1385 Flushing Ave. Brooklyn, N. Y.



FOLEY MATERIALS

ARE THE BEST FOR

Iron Frame, Pipe Frame or Wood Frame

GREENHOUSES

Estimate and Sketch Submitted Promptly

THE FOLEY GREENHOUSE MFG. CO.

3275 West 31st Street, CHICAGO, ILL.

HOT BED GLASS GREENHOUSE

BEST BRANDS

LOWEST PRIC. S

SHARP, PARTRIDGE & CO.

2263 Lumber Street, CHICAGO

MOST PRACTICAL Shelf Bracket



Made for 2 6-inch boards or two lines of 1-inch or 1 1/2-inch pipe and can be clamped on 1 to 2-inch upright pipe columns.

FLATS
12 x 20 x 3 inches — 8 cents

20c
With Bolts Complete

Non-Kink Woven Hose

In any length (one piece) with couplings, 14c. per foot. Remnants 15 to 30 feet, coupled, 10c. per linear foot. Unequaled at the price.



Hose Valve — 70c.



All brass except the hand wheel. Has a removable leather disk which is easily replaced to keep water-tight. Stuffing box prevents leaks at stem.

MetropolitanMaterialCo
PATENTED GREENHOUSES

1297-1325 Flushing Ave., Brooklyn, N. Y.

GET OUR CATALOGUE

On Ventilating Apparatus and Greenhouse Fittings

ADVANCE CO., RICHMOND, IND.

MASTICA



For Greenhouse Glazing

USE IT NOW

F. O. PIERCE CO.

12W. BROADWAY
NEW YORK

Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.

GLASS

AND
HOT-BED SASHES

Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.

215-217 Havemeyer St., Brooklyn, N. Y.

"METROPOLITAN" GREENHOUSES

Actually Help You Grow



Metropolitan Commercial Greenhouses are built to produce the maximum of results.

They are designed to actually assist the grower and not stand as an ornament.

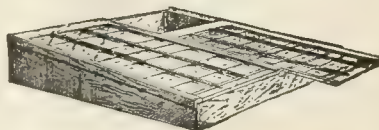
From the smallest to the largest, every Metropolitan Commercial Greenhouse now in operation, is bearing out all our claims and even more.

PUT YOUR GREENHOUSE PROBLEMS UP TO US

We go anywhere in the U. S. to submit plans and prices.

MetropolitanMaterialCo
PATENTED GREENHOUSES

1297-1325 Flushing Ave.,
Brooklyn, N. Y.



HOTBED SASH at 80c. each

Made of best grade Gulf cypress.

Glazed Hotbed Sash from \$1.65 up.

Double Light Hotbed Sash

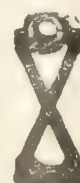
2 inch thick, painted two coats, glazed two layers 10 x 12 glass, \$3.75 each up. We claim that our double light sash are better than any other made.

We have in stock thousands of all kinds for immediate shipment.

HOTBED AND GREENHOUSE GLASS AND PUTTY.

MetropolitanMaterialCo
PATENTED GREENHOUSES

1297-1325 Flushing Ave., Brooklyn, N. Y.

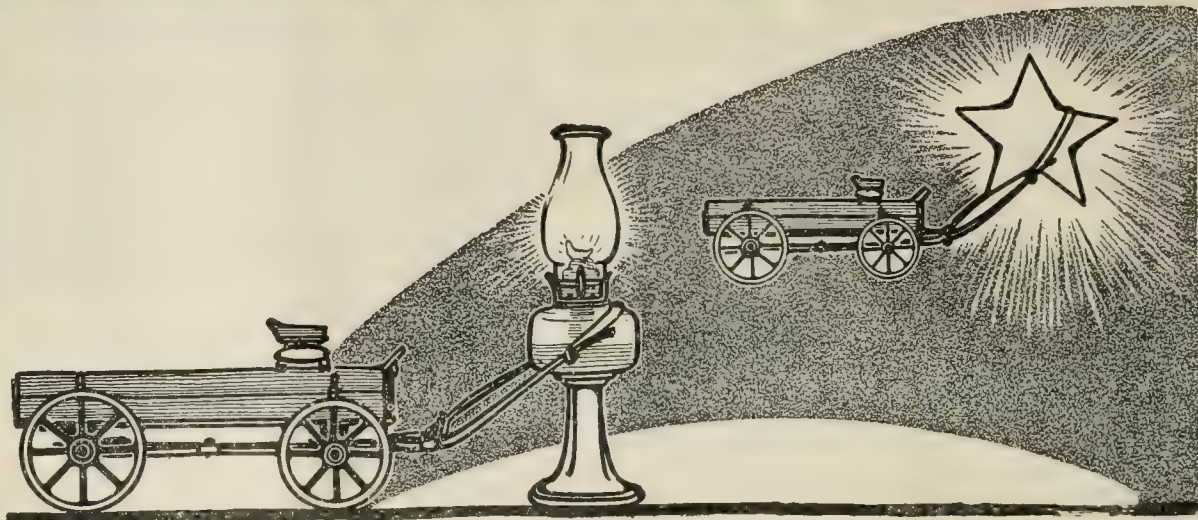


Evans 20th Century Arm

Most up-to-date arm on the market. Proof that it is better than any other is that others tried to imitate it. Write for our 1916 catalog just out

JOHN A. EVANS CO.
Richmond, Ind.

When writing to advertisers kindly mention **HORTICULTURE**.



WAGON

To What Are You Hitching Your Wagon A Kerosene Lamp Or a Star?

"F OOL question" you say.
"One that doesn't mean a thing."
But doesn't it?

Let's see.

When you were a kid, going to school, didn't your teacher every so often give talks on what the boys called "shove-along stuff?"

Talks that were intended to inspire you and me to do big things, when we grew big?

And don't you remember how that same teacher used to tell us, to "hitch our wagon to a star"; with the idea of inspiring us to aim high?

Count on your fingers right now, the number of school fellows who really have made a good sized business success.

Not so many are there?

Wonder why?

Don't you suppose it is because they hitched to a kerosene lamp or a candle instead of that star?

When you were building Iron Frame houses; they

were still hanging on to the all wood, or half and half kind.

When you were building wide houses, they were still putting up that talk about, "plants doing better the nearer the glass they are."

Last year when you saw the prosperity wave coming and at once ordered another big Iron Frame house; they put up a "holler" about the high cost of materials, and stood still.

They just plumb lost sight of the fact, that if you get high prices for your stock; your materials **actually cost you no more**, than when materials are lower, and prices are lower.

Figuring it out so successfully for yourself, the way you did last year; of course you will do the same this.

Having hitched your wagon to a star; you can't stand still on the shelf with the kerosene fellows.

You know we go anywhere for business. Or to talk business.

Hitchings and Company

NEW YORK
1170 Broadway

BOSTON
49 Federal Street

PHILADELPHIA
40 S. 15th Street

General Offices and Factory, Elizabeth, N. J.

Vol. XXV
No. 19
MAY 12
1917

HORTICULTURE



Florists' Vases and Pottery Ware

First Prize Window Display by F. R. Pierson, Tarrytown, N. Y.

Published Every Saturday at 147 Summer Street, Boston, Mass.
Subscription \$1.00



Sim's Hybrid Yellow Polyanthus

(Giant English Primrose)

GOLD MEDAL AWARDED AT PHILADELPHIA

This is the best selling novelty in years. They make charming pot plants, and are indispensable for cutting. They bloom from December to May.

Stock is limited. Strong divisions for May delivery.

Prices: 100 \$7.50, 500 \$25.00, 1000 \$50.00

AURICULA PLANTS one year old in bud and bloom \$15.00 per 100.

WILLIAM SIM, CLIFTONDALE, MASS.

SANDERS' LIST OF ORCHID HYBRIDS

Complete with Addenda to January, 1917

CONCISE, RELIABLE and INDISPENSABLE to all who take an interest in Orchids, giving the names and parentage of all known Hybrid Orchids.

Price, including the Addenda, **\$5**

Apply to MR. WALTER GOTT, McAlpin Hotel, New York City, American Representative

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Correspondence between W. W. Salmon, President of the General Railway Signal Company, and M. L. Davey, General Manager of the Davey Organization—a message of vital importance to every owner of trees.

GENERAL RAILWAY SIGNAL COMPANY

Principal Offices:

Rochester, N. Y., U. S. A.

W. W. Salmon, President.

New York City, Sept. 29, 1916.

Mr. M. L. Davey, Davey Tree Expert Co., Kent, Ohio.
Dear Mr. Davey:

Enclosed herewith please find my check to your order for \$1,081.33 in full for tree surgery on my property at Beechmont, New Rochelle. In making this remittance permit me to express my appreciation of the capable, interested service rendered by your organization. Your New York Office as well as your Westchester representative and your foreman, have one and all given the most painstaking attention to my needs, and I have been so much impressed with the efficiency of your organization as I have come in contact with it, that it would please me greatly if, when you can find time, you will have the goodness to furnish me with any data at your command, showing how you have built up and maintained it in such a way as to bring about the devotion and enterprise so evident in your representatives whom it has been my pleasure to meet.

Yours very truly, W. W. Salmon.

Kent, Ohio, Oct. 3, 1916.

W. W. Salmon, Esq., "Beechmont," New Rochelle, N. Y.
Dear Mr. Salmon:

Acknowledging your esteemed favor of Sept. 29th, I want to assure you that such a voluntary expression of satisfaction is more than a pleasure—it is an inspiration. The public as a whole has been very gracious to us in return for our conscientious efforts to give Quality First Tree Surgery and honest service.

I believe that most worthy things, especially along the line of organization, are the result of evolution based upon a fundamental policy. Our purpose from the beginning has been to give maximum service, which means perfected methods, high type men and an organization ideal.

Perhaps the thing of first importance is the men—the men who actually do the work. The people whom we serve are not particularly interested in my theories or my knowledge or my ability. They measure the Davey organization by the men whom they see, and rightly so. Consequently, we have endeavored to get the right kind of men.

We go on the theory that "A leopard cannot change his spots." If a man is dishonest, if he is lazy, if he is careless and indifferent, if he lacks intelligence, if he lacks the spirit of co-operation and devotion to his work and his employers—if he lacks these fundamental things, no argument and no appeal and no inducement will make him a good man. We, therefore, eliminate the poor ones as fast as we find them, keeping only those who have in them the qualities which have impressed you. The good ones we boost and encourage and try to inspire as soon as we find that they are good. We pay these good men well and pay them more as soon as they prove they are worth more. The foreman who had charge of your work will be given a raise immediately on the strength of your letter. Is it not reasonable to suppose that he will strive still harder to please every other client? Every man in the Davey organization knows that his advancement depends upon his service and upon no other thing.

While we pay well we demand much in return. If a man fails to live up to our high standard, we do not want him and will not

have him. If our service at any time falls below this high standard, we let the offender go and make good to the client. Thus the process of elimination leaves us the good men, those who are intelligent, industrious, honest and devoted to their work.

Our men are all trained in the Davey organization. We take no man's recommendation of himself. He must go through the mill and show us. Every man is responsible to us for his work and his conduct, which is the measure of his service. Thus the client gets through us, the highest possible service—guaranteed service. We, who know values in Tree Surgery, select the man who is to handle your priceless trees and we stand back of it with the whole strength of our organization and reputation.

We have devoted ourselves unceasingly to the perfection of our methods, with the result that our work is in reality practically perfect both mechanically and scientifically. We maintain our own school at a considerable annual expense for the specific purpose of training our men according to the Davey methods and Davey standard.

Every year we have a Convention, when we bring all of our responsible men together, including foremen, special representatives, officers, students and school faculty. We had our usual Convention last March. We had more than sixty foremen in attendance. The average length of their experience was about five years, with the result that more than three hundred years of actual experience was concentrated, massed, on the problems of Tree Surgery. We had a week's demonstration work, during which time we discussed everything from the most important down to the seemingly trivial things. Everything was put to the test of experience. We wanted no theories. We demanded only the definite results of ripe experience. The result is not only a constantly rising standard, but a very gratifying and valuable uniformity of methods and policy.

We had with us during our last annual Convention, Dr. H. D. House, New York State Botanist, who was formerly Professor in the Biltmore Forestry School. We wanted him here so that he could look us over. He expressed himself as amazed at the character of our organization and said that he could now understand why we had made a success of our work. Among other things he said, "These men would do honor to any institution of learning in America." A thing which greatly impressed him was the fact that our men, these fellows of broad, practical experience, were absolutely unanimous on every vital point.

Then there is the question of organization spirit. Our men have been made to feel that they are engaged in a great work—a work which is altogether worthy of them and the best that is in them. They have been made to realize that their future success is inseparably interwoven with the future and the success of the Davey organization. We have appealed to their self-interest, their desire for success and for financial return. We have shown them that there is only one way for them to advance self-interest and that is to give devoted service to their Company and its clients. Without the right kind of men such an appeal would be as wasted as a single rain on a desert. With the right kind of men as we have, such an appeal finds ready response, which grows and grows in beauty and in practical utility.

You as a business man know the inspiration which comes from definite achievement, from approaching a fixed goal. I find more satisfaction in this achievement than in the profit which comes from it. I believe that a business ideal is a source of power and serves to draw success as a magnet.

Ten years ago the Davey organization was only a mere handful, doing a business of about ten or twelve thousand dollars per year. Today we have an organization of about three hundred, built along the lines which I have indicated. Our business this year will exceed three hundred thousand dollars and I am very glad to say it leaves in its wake an almost general feeling of satisfaction such as you have expressed.

Let me assure you that we very deeply appreciate the opportunity of serving you and the honor of your full confidence and esteem.

Sincerely yours, THE DAVEY TREE EXPERT CO.
M. L. Davey, General Manager.

From Mr. Wm. M. Wood, Pres.

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Davey Tree

FOR SAFE TREE SURGERY

Rochester, N. Y.,
Nov. 17, 1916.

Mr. M. L. Davey,
General Manager,
The Davey Tree
Expert Co.,
Kent, Ohio.

Dear Mr. Davey:

Please accept my sincere thanks for your most illuminating letter of October 3rd.

Your story, interesting in itself, is most admirably told, though in its telling it appears to me that you have failed to mention the one element without which the "perfected methods, high type men and organization ideal" would not have come into being. That unnamed element I suspect to have been Davey, who first conceived the idea, then determined the methods and later found and inspired with some part of his own enthusiasm the men who are actually carrying out the work.

Shortly after receiving your letter I read it to the department heads of the General

Fig. 1.—See the iron band around the trunk. The tree was splitting apart and a "tree patcher" tried to save it. Temporarily it prevented a catastrophe, but the band was strangling the bark. And the real trouble, which was the decay on the inside, had received no attention whatever and the condition was growing rapidly worse.

Fig. 2.—Davey Tree Surgeons got at the real trouble. They first tied the branches to gether with ropes to prevent accident while operating. The decay was removed to the last particle, the inside of the cavity was thoroughly sterilized and water-proofed. The mechanical bracing employed demonstrates the finished skill and complete mastery of Davey Tree Surgeons.

Fig. 3.—The filling of a crotch cavity is probably the most trying task confronted by a Tree Surgeon. The filling is subjected to tremendous twisting and strain; it must not only be held firmly in place by the most expert mechanical bracing, but it must also allow for the normal sway of the tree. The sectional filling method aids wonderfully in this accomplishment, but correct mechanical bracing is ultra-important.

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Northern Ohio Traction & Light Co.
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From Mr. Samuel G. Allen, Pres.
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Railway Signal Company, while at luncheon, and the interesting discussion that followed led me to show the letter to some of my business friends, who are at the head of companies employing a great many men. In each such instance I have been asked for a copy of the letter—in order that they may have their men read and profit by it.

Will you have the goodness to write me at my home address whether I have your consent to make and send out to my business friends such copies?

Sincerely yours,
W. W. Salmon.

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CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toil, we ought to blame the culture, not the soil."—Lope.

Antirrhinums

These make a very useful addition to our outdoor cut flowers during the summer as they are persistent bloomers and have excellent lasting qualities. Cuttings taken now from indoor plants will soon root if kept shaded and moist. A good way to get true stock to grow under glass is to sow the seed now and plant outside where they will show up true. Where antirrhinums are raised somewhat extensively, it is best to always have seedling on hand as a source for annual propagation. The blooms of the seedling are never quite so uniform in color as those raised by cuttings. The growth coming in the form of sturdy shoots from the base of the plants makes the best cuttings that will produce long large flowering spikes. It is time now to start stock for next winter. The seed should be sown in separate colors of white, pink, red and yellow.

Bay Trees

In order to keep these in splendid form they should be cut into shape in the spring just before the new growth starts and then the young growths pinched back as they develop. About every three or four years they will need more root room and some good new soil but they should be kept in as small tubs as possible. Bay trees want an abundance of water from now until autumn. During the summer they should be set out in a convenient place where the hose can be used on them freely. The tubs where convenient should be plunged in order to protect the roots from drying out. The bay can endure a few degrees of frost so the trees may be placed outdoors anytime now. They will be greatly helped by the application of some liquid manure during the summer months for the health and vigor of bay trees depends greatly on the care they have during the hot weather. They should have a good syringing about once a week anyhow. Those that are pot bound will be better for some liquid manure once a week.

Lorraine Begonias

With the rush of other work do not neglect these plants as they will soon show it. As they grow give them a spacing from time to time to let the light and air around them. Keep them in a temperature of from 55 to 60 degrees at night. Those in 2 or 3-inch pots that have advanced sufficiently in root growth to require a shift should have it before they become too pot bound. They like nice mellow soil. A turf that was piled up last fall four parts, well-rotted manure and leaf mold one part each, and some sand, will make a good mixture for them. See that good drainage is provided for every plant. Give plenty of ventilation in good weather. A

little shade during the noon hours will help, but to keep them shaded all the time is wrong. Stop the points to induce them to a bushy growth.

Cemetery Vases

Many customers object, and rightly, to the miscellaneous mixtures usually palmed off on them when they ask to have a vase filled. Usually they are far better if planted with one solid color of geraniums and if some drooping plant is wanted, use green rather than variegated vinca, German ivy, English ivy or even one of the ivy-leaved geraniums of the same shade of color. Old geranium plants will make a better immediate effect than young ones and will bloom with greater freedom. Where large sized vases are used, at cemetery entrances, for instance, one plant of large size must be used in each. In addition to the ever useful *Dracaena indivisa* such palms as *Latania*, *borbonica* or *phoenix* can be used. These will of course be of a darker color where they can get shade from overhanging trees but they will stand full exposure.

Gardenias

Some growers think it pays to carry over old plants. Sometimes they can be pruned back and break nicely. The trouble, however, is that collar rot is liable to attack them. No matter how carefully they are looked after, once this appears the plants are useless. Rather than to run any risk of this kind, it is better to plant fresh each summer. Plant a new stock. Much of success of gardenia culture lies in having the compost porous so that water can pass readily through it. In fine soil which holds moisture long, the plants will inevitably fall a prey to the yellows. Good fibrous loam two-thirds and the other third of dried, rather lumpy cow manure, broken charcoal and coarse sand makes an excellent compost. A few shovels of soot, mixed through the pile before housing it, will assist materially in the keeping of the foliage a dark, lustrous green color. Do not use over five inches of soil; four inches is better than six. Allow the plants eighteen to twenty inches between the rows.

Reminders

Sow *salpiglossis* in rows where the plants have to remain as they dislike being disturbed.

Ericas, *boronias*, *camellias* and *acacias*, if properly hardened can be planted out by the middle of this month.

Iris hispanica is a useful flower for Memorial Day. If the spikes are pushing up by the middle of the month they will be in season. Try to hold a good batch of *Gladiolus Colvillei*, the *Bride*, *Blushing Bride* and *Peach Blossom* for the same festival.

HORTICULTURE

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A universal Memorial Day

It is said to have been proposed and the proposition seems to have been received with favor, that our American Memorial Day, May 30, be adopted by all the allied nations and reverently observed henceforth in memory of their heroic dead. Thus in all probability we shall see a world-wide floral holiday mighty beyond comparison in its influence on the using of flowers. The idea is one bright spot among the

"Dire combustion and confused events
New hatch'd to the woful time."

A new job

The land tilling craze is already responsible for the creation of a new and quite important position in some cities—that of town supervisor of home gardens and there is plenty for the incumbent to do, the main difficulty in most cases being to find a competent man who thoroughly understands the work, to hold down the job. What a change from the time not long ago when there were gardeners, old and young, on all sides clamoring for work. After allowing for all reconcilable causes for such a situation it is still difficult to account for the vanishing of the surplus. Whither have they flown?

The big rush

Never in the history of the seed trade have the stores experienced anything approaching the clamorous rush for garden vegetable seeds now going on. So rampant has it been that several of the leading houses of Boston have been compelled to shut down their seed department, either partially or fully, so that orders for vegetable seeds and garden requisites already accepted may be filled. The situation as regards flower seeds is however, quite different—the demand being reported as much below normal. Many garden plots heretofore devoted to flower purposes are slated for sterner service this year it would seem. And flower seeds of many kinds are almost unobtainable, anyhow.

Garden thieves

People in many places are much disturbed over the possibility of having their home vegetable gardens looted about the time the crop is ready to harvest. There is a big difference in communities in this respect. Some places have a large class of people who appear to assume that anything growing in fields and gardens is common property. Other neighborhoods are fortunate in that thieving of this sort is comparatively rare. The Bridgeport, Conn., Telegram wants a Home Garden Guard and some 8-bore shells to check marauders in the city limits and suggests that the gardener in the country resort to the time-honored and effective method of hypodermic injections of rock-salt through a gun barrel! We understand that depredations of this sort are almost unknown in European communities where intensive home gardening is general. Perhaps we shall outgrow it when gardens become more common here.

Save the paeony

The carefully prepared paper by William Rollins on the malignant disease that so seriously menaces our noblest spring flower, which is the leading feature of this issue of HORTICULTURE, should and doubtless will be perused with close attention by paeony growers everywhere. This, we understand, is not a new disease in Europe, but, having got to America it has taken on a more sinister aspect here, and as there has been no attempt to describe and illustrate it in a way that would put paeony growers on guard, it has now become widely spread and is the most serious trouble in the paeony world today, and rapidly becoming more so, because American paeony growers are spreading it all over the country. Mr. Rollins describes the disease so clearly that by aid of the illustrations any one will be able to distinguish this from all other fungous diseases, a matter of great importance, as if radical and constant attempts are not made to stamp out this pest, the growing of paeonies will be a matter of great difficulty. We consider Mr. Rollins' paper a very valuable contribution to the literature of this noble plant which in the last few years especially has been making most astonishing progress in popularity.

ROSE GROWING UNDER GLASS

CONDUCTED BY

Arthur Ruzicka

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Ruzicka. Such communications should invariably be addressed to the office of HORTICULTURE.

Declare War, Too

Time flies, and since our last article appeared, many things have happened in the world and in the greenhouse. With war on all sides, growers will have to declare war, too, in order to hold their own should the bottom drop out of the flower market the coming year or two. The very first thing to attack will be all the leaks, the ones in the roofs first and all the rest of the leaks next. Rust on the iron work should be fought with red lead and oil first and white lead to re-enforce it. Rust on pipes should be fought with linseed oil and lamp black. There will be many insect enemies to be warred on, among them the one which spreads most rapidly now in the spring, greenfly. Keep the plants free from this pest, as it is hard enough to keep the plants growing without having them covered with fly to retard them. Spider will creep in the corners unless the grower is right on the job, and with the weather we have been having the chances for syringing are none too plentiful. Weeds will begin to creep in among the plants if liquid manure has been used. These are great for breeding spider and should be pulled out as soon as they appear. There will be many unlooked-for enemies seeking to ruin the roses which we are trying to grow. Let us be at war, and prepared for more war until we have won.

The Heating System

With all the defects in the heating systems still fresh in mind after the winter just passing away, it will be best to make note of all the little things and see that all is ordered at once so that when the time comes all the necessary repairs will be on hand to complete the work once the repair work is started. It will pay, too, to look over all repairs received to make sure that they are just what is wanted, as many manufacturers are forced to employ many new hands with the rush of work, and even with the best of care things sometimes get mixed up, or often it happens that the wrong numbers are stated when sending for repairs, and the fact is not discovered until after the parts arrive. It is therefore wise to go into details and see that all is right, and see that the parts are put away where they will be found when they are wanted next summer. As fast as the boilers are retired, see that they are cleaned fairly well so that they will not rust too much before they get their thorough cleaning next July or August.

Early Planting

Growers cannot start their planting out too early. Many of the large places have their planting well under way, in many cases half done, and it is well for them that this is so. It is cool, now, and although the frequent rains disturb the work more or less, it will leave the men free to get more work done later on in the summer, such work as painting and repairing. Do not let the place go unpainted because paint is high. It is not very likely to be a bit lower for some time to come and

the chances are that it will be much higher, and labor will certainly not be any more plentiful or cheaper either. It is too early to cut back old plants except for summer flowering, but young plants can be set out very nicely now. Be sure to have everything done right. It will take longer but it is always better to be safe. See that all the old soil is removed from the benches and that the benches are washed out thoroughly with a high pressure hose after all the soil is wheeled out. After this a good coat of hot lime applied as thick as possible will go a great way to sweeten the old benches and help keep them from decay. All old earth that sifts through the benches while wheeling should be removed before the benches are washed out. This work should be well done, for if it is let go each year will fill up the houses more, and after a time there will be a layer of old greenhouse soil all over the houses. This will always be full of insects and disease germs, a regular breeding place. Therefore take time and clean out well. See that the bracing for the benching is spaced so that it would not interfere with the cleaning and see that all pipes are high enough to get under with the scrapers. If the benches are old and in need of repair use old lumber to do this if at all possible. If new lumber is put in, the bench will always be too good to throw out and rebuild and will never be any good. The only way is to patch to last so long and then throw out the bench, using the better lumber for patching other benches and building the one bench new. This will save time and money in the long run.

Depth of Soil

If the plants that are to be planted are very small it will pay not to fill up the benches too much, as mulch can always be applied later on to make up for any soil that may be missing. If the benches are filled with five inches of soil this will be plenty. It will settle to four, which will be just right, and when summer or early fall comes around the mulch the plants will receive will take care of them nicely, and they will dig into it far better than they would if they had plenty of soil in the benches. With proper care in feeding, plants that have all the roots confined in four inches of soil will do far better than plants that have too much soil to roam around in. See that the drainage is all right as the benches are filled, and if there are many boards that are too close together see that they are spread or that a little is chopped off one of them to make drainage. One-half inch will be about right and only six-inch boards should be used for the bottoms. Where solid beds are used see that the cinders, gravel or whatever is used for drainage is properly stirred so that there will be no dead spots to keep the plants very wet in one place and very dry in another. Also see that the surface of the cinders or gravel is perfectly level so that the plants will have an even depth of soil all over. This is very important if they are to grow evenly and well.



Fig. 1



Fig. 2



Fig. 3

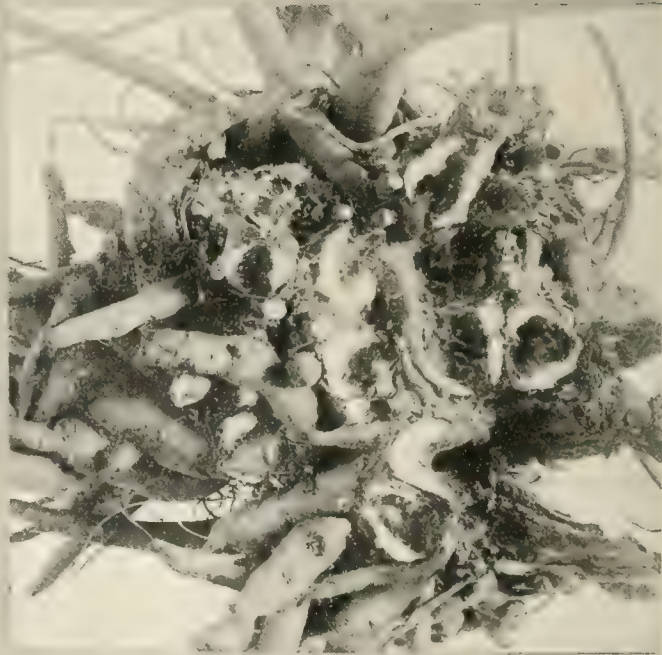


Fig. 4

THE HOLLOW STEM DISEASE OF PAEONIES.

THE HOLLOW STEM DISEASE OF PAEONIES

BY WILLIAM ROLLINS, BOSTON.

Through roots received from a paeony specialist in Pennsylvania my paeony garden was threatened with ruin. It therefore seems desirable to furnish gardeners with data that will enable them to recognize this disease as soon as it appears in the garden. It is hoped also that the illustrations will enable them to detect the fungus in the roots before planting. Figure 1 shows the effect of Hollow Stem on a paeony root. It produced the small stems and buds. This root was chosen because it also showed another disease, Knob Root, which caused the nodular condition. The latter has been a not uncommon disease for some years, and its treatment is within our present knowledge.

Hollow Stem is a much more serious disease, and more difficult to recognize, and its treatment is not so well known.

When a box of paeony roots is received from the dealer open it on a piece of old sail cloth at a distance from the garden. If any of the stalks are dead and hollow at the level they were cut in preparing the root for shipment the plant probably has the Hollow Stem fungus. Look with a hand magnifying glass for small dark raised spots, especially inside the stems that are hollow. Figure 2 shows an affected stem cut half through, to show the inside surface. The picture is enlarged about as much as the stem would be with a hand magnifier, such as should always be used in examining every paeony root before planting. If black spots are found, cut off the stem low enough to be sure the stump is healthy and paint the cut surface with a fungicide. Make sections of the amputated parts and examine them. The paeony has many other diseases not so serious as Hollow Stem, and unless the microscope shows the Hollow Stem fungus, the subsequent treatment does not need to be so radical. I assume that every gardener has a microscope, for gardening is one long struggle with minute enemies. A very inexpensive instrument will serve. All the microphotographs used to illustrate this paper were made with an instrument the optical parts of which cost \$14.50, or less than the price of a single root of many varieties of paeonies. If the fungus is found, destroy all the roots of the common varieties affected. With the more valuable roots cut until sound tissue is reached. Though the roots are divided into pieces each will grow if it has one healthy bud. Gather up all affected pieces and burn them with the packing case and contents. Figure 3 is from a mature root of the variety *Therese*, cut to show a hollow in the root caused by hollow stem fungus. From an ideal root it became a ruin in two years. The plant never showed

the least sign of Knob Root, to which a number of paeony growers attributed its ill health. Observe the small buds at the bases of the former large stems. If this plant had been left in the ground, this year it would have produced only feeble stems, which would have developed buds that would not have opened. When in health this root produced flowers twenty-two centimetres in diameter. Figure 4 is a top view of the same root, with the hollow stems cut at the bases to show how little tissue remained to make new stems. The healthy tissue is white in the picture. In 1914 this was a perfect specimen of a paeony root.

Before planting the roots on which the surgical operations have been performed, immerse them in commercial formalin, or in a deep red solution of permanganate of potash and thoroughly brush all parts except the buds, with the solution. The next spring, if any of the stalks wilt, make sections and hunt for the fungus. Later watch for the new spores. The first sign will be a minute red spot, where the spore has turned the chlorophyll of the cells to an autumn tint. As the diseased spot enlarges, the centre becomes the color of dead wood. Figure 5 shows a paeony stem with the fungus in the early stages. It is enlarged about as it would be by a hand magnifier. Several points of attack are shown, from one the size of a pin head at A to others in more advanced stages at B, C, D. From A a single fruiting stalk of the fungus is arising. Figure 6 shows the fungus in the stage where it has sent up hundreds of fruiting stems from the bark of a stem. The spore heads are about a millimetre above the surface of the stem. At the left many of the stems have shed the spores, become black, and under the microscope look like bits of graphite. Figure 7 is a microphotograph of the fungus in the fruiting stage. In this and the following illustrations the real size of the subjects can be determined by the accompanying scale, which is a photograph of a Rogers micrometer, with divisions of one-tenth and one one-hundredth of a millimetre.

Each of the wide spaces in figure 7 is one-tenth of a millimetre. In all subsequent pictures each division of the scale is one one-hundredth of a millimetre. This picture is a thin bit of the outer tissues of the bark of the stem and the dark masses are the root clumps of the fungus from which the fruiting stems arise. The specks in the background are the spores that flew off in making the section. While too small to be individually seen by the unaided eye they are when ripe, so easily detached by a slight touch of the paeony stem, that they arise as a plainly visible cloud. This is the reason why the disease can spread over a large garden so rapidly, for being carried by the wind, even in wet weather they reach distant parts with ease. They are as transparent as glass. To study their structure they must be killed instantly and stained. When the wind blows a spore against

a paeony it develops quickly. Figure 8 shows a spore that has penetrated the tissue of a paeony stem and is sending out the first bud. Figures 9 and 10 further development in the cellular tissue of the paeony stem. The nearly black bunches are the enlargements that come in the fungus roots at points where it will send up the stems into the air that will make fruiting plants. Figure 11 shows one of these stalks in an early stage before it begins to branch. Notice the tip where the first spore is beginning. Figure 12, an aerial stem that is branching and developing a few spores. Figure 13, a fully developed aerial stem with the spores in the mature state ready for the wind to send them flying over the whole garden.

Figure 14 is most interesting, as it shows a single cell of the stem of a paeony in perspective. The mottled snake like thing is a fungus root. It has pushed through the wall between the cell and the one next and after sucking out the life of the cell, destroying its structure, it is attacking the nucleus which is the most resistant of the tissues.

Figure 15 shows a similar cell where the fungus has nearly destroyed the nucleus. Figure 16 shows the stage where the fungus roots have destroyed practically all of the tissue of the paeony stem, the whole picture being only a mass of fungus roots running in every direction. When this stage is reached which may be in a week after the spore strikes the paeony, the stem wilts, and the gardener begins to wonder what is the trouble with his plant.

Treatment.

Soak the ground with a solution of permanganate of potash, and drench the plants with it from time to time. During the stage when the fungus is fruiting, paint every suspicious spot on the paeony with tar. Do not use a fungicide that is not sticky for in applying it the jarring of the plant will shake off the spores before they are killed. Remove all affected parts that are not necessary for the development of strong buds for the next season and steam them. A stock feeding outfit is suitable, if it has a boiler in which steam can be developed. From it run a pipe to a barrel and throw the affected parts of the plants into the barrel partly filled with water having a fungicide in it. Once in two or three days steam thoroughly and remove the steamed tops and stems to the compost pile. In the autumn when the tops are removed, cut them very low, gather them in iron bushel baskets, and burn them. After the stems are cut observe the stumps left on the plants and if any of them are hollow they probably contain the fungus in the resting stage already described. Dig down and cut off all such stem until you come to sound tissue. Paint the cut surface with a fungicide and cover with earth. Paeony plants should be six feet apart to allow a good circulation of air to promote dryness as the fungus grows best in damp air.



Fig. 7

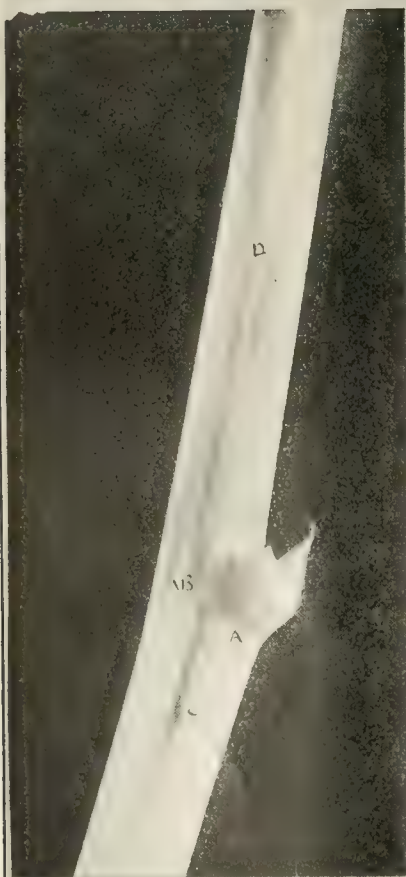


Fig. 5



Fig. 6

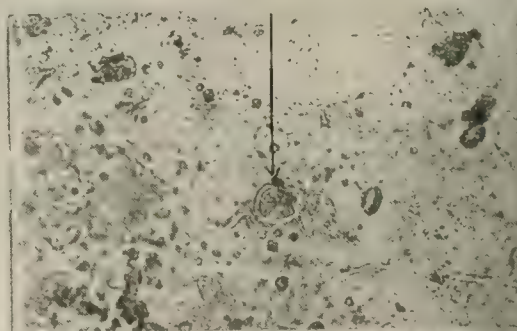


Fig. 8



Fig. 9



THE HOLLOW STEM DISEASE OF PEONIES.



WEED KILLER

Clubs and Societies

LADIES' SOCIETY OF AMERICAN FLORISTS.

Miss Perle B. Fulmer, president of the Ladies' S. A. F., has appointed Mrs. Frank H. Traendly chairman of New York City and State Ladies' Committee. Her appointees will be published later. Ladies, please get the habit of reading the ladies' papers from now on.

MRS. CHAS. H. MAYNARD,
Secy. Ladies' S. A. F.

Pelargoniums and calceolarias in plants, and orchids, bulb flowers, sweet peas, antirrhinums, herbaceous and shrub and tree bloom are provided for in the prize schedule of a show to be held at the New York Botanical Garden on May 12 and 13 under the direction of the Horticultural Society of New York.



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Obituary

John Davey.

John Davey, well-known as a plant grower and latterly in the employ of P. McGovern, died on April 30, at his home in Brooklyn, N. Y., aged 60 years. Cancer is said to have been the cause of his death.

Charles L. Johnson.

Charles L. Johnson, carnation grower, died at his home in East Sudbury, Mass., on Friday night, May 4, of cancer of the stomach. Previous to starting into business for himself last year Mr. Johnson had been in the employ of William M. Davis at Coolidge Farm, East Sudbury, for about five years and he had been on the Coolidge Farm in one capacity or another for 27 years. His age was about 45 and he leaves one son and one daughter. His wife died last August.

Joseph Amann.

Joseph Amann, 50 years old, for many years associated in the florist business with his father, a pioneer resident, in Middle Village, N. Y., died Wednesday night, May 1, after a long illness at his home, 14 Proctor street. He is survived by his wife and one son; two brothers, John and Jacob Amann, and a sister. Mr. Amann was born in the Eastern District, Brooklyn. The funeral took place Sunday from the R. C. Church of St. Margaret, Middle Village, and interment was in Calvary Cemetery.

GREENHOUSES BUILDING OR CON-TEMPLATED.

Arleta, Ore.—A. Walden, one house.

Marion, Mass.—John Allanach, addition.

Tama, Ia.—Sheldon Gardens Co., house 42 x 500.

Alexandria, Minn.—Alexandria Nursery Co., additions.

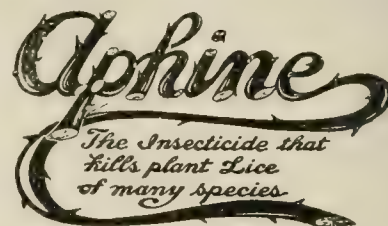
La Jolla, Cal.—M. C. Elliott, propagating house 20 x 30.

Louisville, Ky.—Nanz & Neuner Co., propagating house 12 x 150.

New York, N. Y.—C. C. Trepel, house 60 x 90 on the roof of Bloomingdale's 59th street store.

A CORRECTION.

Rev. C. S. Harrison writes to say that he made a big mathematical error in his communication on the cost of feeding the five million dogs said to be kept in this country, which appeared in our issue of April 28. One hundred and eighty-two million, five hundred thousand dollars a year is the correct computation and that seems fully sufficient to justify Mr. Harrison's conclusions.



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Hardy Shrubs and Vines

A choice assortment of standard varieties—Altheas (including our own splendid novelty William R. Smith) Azaleas, Callicarpa Purpurea, Hydrangea Aborescens Grandiflora, and Paniculata Grandiflora, Cotoneasters, Buddleias, Deutzias, Forsythias, Prunus, Philadelphus, Spiraeas, Viburnum, Weigelas, Ampelopsis, Akebia, Aristolochia, Clematis, Honeysuckles, Wisterias, etc.

Decorative Plants

Palms and Ferns, Aspidistra, Crotons, Dracaenas, Ficus, Pandanus, etc.

Amaryllis, Tuberous-Rooted Begonias, Caladium Esculentum and a splendid assortment of Fancy-Leaved Caladiums, Golden Yellow and Spotted-Leaved Callas, Hyacinthus Candicans, Gladiolus, Lilies, Montbretias, Tigridias, Tuberoses, etc.

All of the above and many others are fully described in our current Wholesale List, January to June, which will be mailed upon request only to persons engaged commercially in Horticulture.

HENRY A. DREER

714-716 Chestnut Street,

Philadelphia, Pa.

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Kirby B. White, Detroit, Mich.; First Vice-President, F. W. Bolgiano, Washington, D. C.; Second Vice-President, L. L. Olds, Madison, Wis.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.—Convention at Detroit, June 19, 1917.

The following notice published in the Boston daily papers by Joseph Breck & Sons shows the situation as it is in Boston at present.

"On Tuesday, May 8, our Seed Department will be closed for the first time in 95 years, in order that those who have already favored us with their valued orders for seeds, fertilizers and insecticides may not suffer.

This will enable our force, which cannot be augmented by inexperienced helpers, to execute orders in hand and clear the way for prompt service when the department is reopened later in the week, of which notice will be given.

Short crops, late harvest, and slow movement of freight, together with the agitation for increased planting on account of war conditions, have caused congestion in the seed trade beyond precedent.

Our other departments will not be interfered with and will be open for business as usual."

Notices have also been given by R. and J. Farquhar & Co., and Fottler, Fiske, Rawson Co., that their stores will be closed daily at 3 P. M. during the present emergency.

BUSINESS TROUBLES.

Rose Hill, N. Y.—F. B. Mills, seedsmen; liabilities, \$100,000; inventory being made of the property.

Portland, Ore.—Oscar Johnson Floral Co., 768 Glisan St., voluntary bankrupt; assets and liabilities not yet reported.

MICHELL'S PRIMULA SEED

PRIMULA CHINENSIS

(Chinese Primrose)

	½ tr. pkt.	tr. pkt.
Mitchell's Prize Mixture. An even blending of all colors.	\$0.60	\$1.00
Alba Magnifica. White.	.60	1.00
Chiswick Red. Bright red.	.60	1.00
Duchess. White, with zone of rosy carmine, yellow eye.	.60	1.00
Holborn Blue	.60	1.00
Kermesina Splendens. Crimson	.60	1.00
Rosy Morn. Pink.	.60	1.00

PRIMULA OBCONICA GIGANTEA

A great improvement over the old type, flowers much larger.	tr. pkt.
Lilacina. Pale lilac.	\$0.50
Kermesina. Deep crimson.	.50
Rosea. Pink	.50
Alba. White	.50

PRIMULA MALACOIDES

Lilac. Trade packet.	\$0.50
Alba. White	.50
Rosea. Light rose to carmine rose.	.50
Also all other Seasonable Seeds, Bulbs, Plants and Supplies.	

Send for WHOLESALE CATALOGUE if you haven't a copy.

HENRY F. MICHELL CO.
518 Market St. Philadelphia, Pa.

SPRING BULBS

CANNAS, Dormant Roots

Packed 250 in a Case
Full cases at 1000 rate

Red-Flowering Cannas, Green Foliage

	100	1000
BEAUTE POITEVINE. 3½ ft.	2.00	17.50
A. BOUVIER. 5 ft.	2.00	17.50
CHARLES HENDERSON. 4 ft.	2.00	17.50
CHEROKEE. 4 ft.	1.50	14.00
CRIMSON BEDDER. 3 ft.	2.75	25.00
DUKE OF MARLBORO. 4½ ft.	1.75	15.00
FURST BISMARCK. 4 ft.	1.65	15.00
CHANCELOB BULOW. 3 ft.	1.65	15.00
J. D. EISELE. 5 ft.	1.65	15.00
LOUISIANA. 6 ft.	1.65	15.00
MEPHISTO. 3½ ft.	1.65	15.00
MUSAFOLIA. 7 ft.	1.65	15.00
PRESIDENT CLEVELAND. 3 ft.	2.00	17.50
PRES. MEYER. 4 ft.	2.00	17.50
PILLAR OF FIRE. 6 ft.	2.00	17.50
TARRYTOWN. 3½ ft.	2.00	17.50

Orange Shades

MRS. KATE GRAY. 6 ft.	1.65	15.00
INDIANA. 6 ft.	1.65	15.00

Yellow-Edged and Gold-Edged Cannas

	100	1000
ALLEMANNA. 4 to 5 ft.	1.25	12.00
GLADIO-FLORA. 3½ ft.	1.65	15.00
ITALIA. 4½ ft.	1.50	14.00
JEAN TISSOT. 5 ft.	1.65	15.00

CALADIUM ESCULENTUM

(Elephant's Ear)

Full cases at 1000 Rate

	Doz.	100	1000
5/7 200 in a case	.30	2.25	20.00
7/9 100 in a case	.50	3.50	30.00
13/up 25 in a case	1.60	12.00	

FANCY-LEAVED CALADIUMS

Brazilian Collection of 12 varieties.	\$1.50 per doz., \$12.00 per 100.
Mixed Brazilian Varieties.	\$1.25 per doz., \$10.00 per 100.

TUBEROSES

	100	1000
Double Pearl. Bulbs, 4 to 6 in. in circumference.	\$1.00	\$7.50

Arthur T. Boddington Co., Inc., 128 Chambers St., New York City



SEEDS BULBS FERTILIZERS SUNDRIES

FOR THE FLORISTS
A most complete stock of Seasonable Seeds.

FOR THE FLORISTS
For immediate use or future delivery. Ask for quotations.

FOR THE FLORISTS
Pulverized Sheep or Cattle Manure, Clay's, Thompson's, Dried Blood.

FOR THE FLORISTS
Insecticides, Spraying Implements, Small Tools, etc.

YOU ought to have our retail and Florists' Special List. If you have not, write for one.

FOTTLER, FISKE, RAWSON CO., THE SEED STORE BOSTON
Faneuil Hall Square

"Seeds with a Lineage" All Varieties
Thoroughly tested at our trial grounds, Raynes Park, London, England. Send for Catalogue
CARTERS TESTED SEEDS, Inc., 166 Chamber of Commerce Bldg., Boston, Mass.

"SOME" WEATHER.

Nashua, N. H., May 6.—One of the heaviest northeast rainstorms for some time wound up with enough snowfall this afternoon to turn the ground white.

Somersworth, N. H., May 6.—It was snowing hard here this morning when the Public Safety organization officials decided to postpone until next Sunday the big patriotic demonstration scheduled for this afternoon.

Biddeford, Me., May 6.—Pythian Sunday was observed by the K. of P. lodges, uniformed rank, and Pythian Sisterhood of Saco and Biddeford today. They marched to the Universalist Church in a snowstorm.

Farmington, Conn.—E. B. Robinson succeeds Bernard Dawson in charge of the greenhouses on the Porter estate, Mr. Dawson having accepted a position in Garden City, N. Y.

PUBLICATION RECEIVED.

Transactions of the Massachusetts Horticultural Society for the Year 1916, Part II. This publication by Secretary Rich comprises the reports of all the officers, boards and committees of the society, necrology and complete list of members in 1916, also list of all awards made during the year.

PIN MONEY MUSHROOM SPAWN

8 lb. for \$1.00

Directions Included

WM. ELLIOTT & SONS
42 Vesey St., New York

BULB STOCK

Dwarf Double Pearl Tuberoses

Special prices on application.

J. M. THORBURN & CO.

53 Barclay Street
NEW YORK CITY

KELWAY & SON

SPECIALIZE IN

SEEDS

(personally selected strains)

WHOLESALE ONLY

Write for Special Prices, Spot or
Forward

Only Address, LANGPORT, Eng.

LET US QUOTE YOU PRICES

"A B C BRAND"

Lilium Giganteum Rubrum
Album Auratum

AMERICAN BULB CO.

172 No. Wabash Ave., - - Chicago

J. BOLGIANO & SON

Careful Seed Growers For
99 Years

Send for Our 1917 Wholesale Prices
To Florists and Market Gardeners

BALTIMORE, MD.

ORDER NOW

ASPARAGUS PLUMOSUS NANUS SEED, greenhouse grown, \$3.50 per 1000, \$15.00 per 5000, \$27.50 per 10,000; Lath-house grown Seed, \$2.00 per 1000, \$9.00 per 5000, \$17.50 per 10,000. Asparagus Sprenger Seed, 75c. per 1000, \$3.00 per 5000.

S. S. SKIDELSKY & CO.

1004 Lincoln Bldg. Philadelphia, Pa.

My WINTER-ORCHID-FLOWERING SWEET PEA SEED have again received the highest honors by the New York and St. Louis flower shows. Over 8000 commercial growers are more than satisfied. If you are not already our customer, send your address and we will mail you our new price list in May or June. It will contain many splendid Novelties.

ANT. C. ZVOLANEK

Sweet Pea Ranch Lompoc, Cal.

ROBERT DYSART

CERTIFIED PUBLIC ACCOUNTANT

Simple methods of correct accounting
especially adapted for florists' use.

BOOKS BALANCED AND ADJUSTED.
40 STATE ST. - - - BOSTON
Telephone Main 55.

FARQUHAR'S GOLD MEDAL



CYCLAMEN

Awarded the Gold Medal of the Massachusetts Horticultural Society.

Strong plants in 2 1/4 inch pots, for delivery in April.

\$10.00 per 100

R. & J. FARQUHAR & CO., Boston, Mass.

LEONARD'S SEEDS

and SEED SERVICE

FOR SALE BY

LEONARD SEED COMPANY, Chicago, Ill.

LILIUM GIGANTEUM

NEW CROP NOW READY.

	Per 100	Per 1000
7 to 9 in. (300 bulbs to case)...	\$5.50	\$50.00
8 to 9 in. (250 bulbs to case)...	7.00	65.00
8 to 10 in. (225 bulbs to case)...	9.00	80.00
9 to 10 in. (200 bulbs to case)...	10.00	95.00

A. HENDERSON & CO.

211 N. State St., Chicago.

Burpee's Seeds

PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLAN
FOR PROFIT.

THOMAS J. GREY COMPANY

SEEDS, BULBS AND IMPLEMENTS
WHOLESALE AND RETAIL.

Reselected Strains in Seeds.

Improved styles in Implements.

Catalogue upon application.

16 So. Market Street
BOSTON, MASS

BURNETT BROTHERS

Importers and Growers of

SEEDS, BULBS, PLANTS, &c.

98 Chambers Street, New York

ROMAN J. IRWIN

108 West 23th St., NEW YORK

SPECIAL OFFER

LILIUM FORMOSUM

8/11, 225 to a case.....	\$80.00 per 1000
9/10, 200 to a case.....	85.00 per 1000
11/13, 100 to a case.....	15.00 per case
LILIUM FORMOSUM—Black Stem	
8/10, 200 to a case.....	\$80.00 per 1000
9/10, 180 to a case.....	90.00 per 1000
11/13, 100 to a case.....	16.00 per case

Write for Complete Stock Circular,
SATISFACTION GUARANTEED.

ORDER NOW

New crop flower and vegetable seeds,
Begonia and Gladiolus Bulbs. 1917
Catalogue on application.

JOSEPH BRECK & SONS' CORP.

47-54 North Market St., Boston, Mass.

W. E. MARSHALL & CO.
SEEDS, PLANTS AND BULBS
Horticultural Sundries

166 W. 23rd St., NEW YORK

GARDEN SEED

BEEF, CARROT, PARSNIP, RADISH and
GARDEN PEA SEED in variety; also other
items of the short crop of this past season,
as well as a full line of Garden Seeds, will
be quoted you upon application to

S. D. WOODRUFF & SONS

82 Dev St., NEW YORK and ORANGE, CONN

ALEX. McCONNELL

611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

*Cost of Cabling Foreign Deliveries
Must be prepaid*

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.

Penn.
The Florist

"The Telegraph Florist"

Member of Florists' Telegraph Delivery

124 TREMONT ST.

BOSTON

FOR

KANSAS CITY

Transfer Your Orders to

SAMUEL MURRAY

1017 Grand Avenue

Members Florists' Telegraph Delivery

Orders for NEW YORK.
Write or Phone to

MAX SCHLING

22 West 59th St.

Adjoining Plaza Hotel

Best Florists in the States as
References.

EUROPEAN ORDERS EXECUTED

Members of the Florists'
Telegraph Delivery.

Established 1874

DARDS

FLOREST

N. E. Cor. 44 St. & Madison Avenue, N. Y. City

(Member Florists' Telegraph Delivery Asso.)

Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address, Dardsflor.

DAVID CLARKE'S SONS

Deliver orders from any part of the country to

New York City

Write or Telegraph

2139-2141 Broadway, - New York
Telephone 1550-1555 Columbus

Of Interest to Retail Florists

NATIONAL CO-OPERATIVE ADVERTISING.

A full page advertisement of Mothers' Day, on behalf of the florist trade, appeared in the Literary Digest for Saturday, May 5. This was the culmination of the campaign inaugurated by the Chicago Florists' Club and carried to a successful conclusion by their Publicity Committee under the management of Fred. Lautenschlager. The advertisement was given a very prominent place in the magazine and should bring some substantial results from the 700,000 representative families which The Literary Digest is said to reach.

A vignette of an elderly lady seated in a big easy chair and opening a box of flowers illumines the advertisement, which reads as follows:

MOTHERS' DAY,

2nd Sunday in May.

Send Her Flowers.

If possible, her favorite ones.

They will carry a double message.

If you don't remember her favorites, send yours.

If they are out of season, there is the lovely rose, the beautiful spring flowers and bright blooming plants.

The thought of your remembrance will make it one of her happiest days.

You Can 'Phone or Telegraph Them.

No matter where your Mother or you are; you can step into any flower store and leave your order.

If the distance is great they will telegraph the order.

The country wide Association, called the Florists' Telegraph Delivery, makes this guaranteed service possible.

To obviate the chance of forgetting Mother or Mothers' Day, attend to the ordering now.

NEW FLOWER STORES.

Bangor, Me.—Cushman & Worth, 13 State St.

Newport, R. I.—E. W. Forrest, 94 Broadway.

Newport News, Va.—Miss Lizzie McPherson, 623 25th St.

Spokane, Wash.—E. S. Eugene, Wall St., near Riverside Ave.

Chicago, Ill.—Charles Schneider, removing to 6 West Jackson Boulevard.

Cincinnati—The R. G. Kootz Floral Co.'s business was placed in the hands of a receiver on Saturday when a suit for dissolution of the partnership was filed. It is believed that creditors will receive dollar for dollar.

Write or 'Phone

F. H. WEBER'S

Modern Flower Shop for
Artistic and Special Work

N. E. Corner of Taylor and Olive

ST. LOUIS, MO.
M. F. T. D.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.



GUDE BROS CO
4214 F ST NW
WASHINGTON DC

GUDE BROS. CO.
WASHINGTON, D. C.

Member Florists Telegraph Delivery

IN THE

National Capital

At your service to deliver Flowers
or Designs on Order by Tele-
graph or otherwise. Prompt
Reliable Service.

GEORGE H. COOKE

Connecticut Ave. and L St.
WASHINGTON, D. C.

THE ROSERY

23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

Members Florists' Telegraph Delivery

G. E. M. STUMPP

761 Fifth Ave.

NEW YORK CITY

Member Florists' Telegraph Delivery Asso.

YOUNG & NUGENT

42 West 28 Street

New York

Members Florists' Telegraph Delivery

A. T. BUNYARD

NEW YORK

413 Madison Avenue at 48th Street.
Also Newport, R. I.

We Guarantee Satisfaction
MEMBER F. T. D. A.

CHICAGO Send Your Orders to WILLIAM J. SMYTH

Member Florists' Telegraph
Delivery Association

Michigan Ave. at 31st Street

Prompt Auto Delivery
Service

THOS. F. GALVIN
INC.
NEW YORK 561 Fifth Ave.
Vanderbilt Hotel
BOSTON 1 Park Street
799 Boylston Street
Deliveries to Steamers and all Eastern Ports

CLEVELAND

A. GRAHAM & SON
5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

Orders Filled Day or Night for
CLEVELAND
and State of Ohio

Complete Stock. Regular discount to Trade.
KNOBLE BROS.
1896 W. 25th St., Cleveland, O.
Members Florists' Telegraph Delivery Ass'n.

THE SMITH & FETTERS CO.
735 Euclid Avenue
CLEVELAND, OHIO

Flowers of Every Kind in Season

HESS & SWOBODA
FLORISTS

Telephones 1501 and L 1532.

1415 Farnum St.,

OMAHA, NEB.

Rochester, N. Y.

J. B. KELLER SONS,
FLORISTS

25 Clinton Avenue, N.

Rochester Phone 506. Long Dist. Bell Phone 278.
Members Florists' Telegraph Delivery

S. A. ANDERSON

440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
Stock and prompt deliveries in BUFFALO,
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK
Members of Florists' Telegraph Delivery.

HIGH GRADE PLANTS

For Retail Stores a Specialty

ASK FOR LIST

THOMAS ROLAND, Nahant, Mass.

WORCESTER, MASS.

Randall's Flower Shop

HARRY L. RANDALL, Proprietor.
Mention Florists' Telegraph Association

Memorial Day

There is every reason to expect an unprecedented call this year for flowers for this time-honored occasion, sacred to the memory of the patriots of over half a century ago.

Whatever you have to offer in flowers, bedding, plants, greens and special supplies for that date

CAN BE WELL SOLD

through an advertisement in this paper which has its largest circulation among the trade of that section of the country where *Memorial Day* has its most general and earnest observance.

You'll Need All the Business You Can Get This Year, So Take Advantage of the Opportunity.

SEND COPY FOR ISSUES OF
MAY 19TH AND 26TH

Send Telegraph, Telephone or Mail orders for florist service in this vicinity to

Howard & Smith

853 SO. OLIVE ST.

Los Angeles, Calif.

Every Order sure to receive prompt and careful attention.

ZINN The Florist

For Quality and Promptness

4 PARK ST. - - BOSTON

REUTER'S Members Florists' Telegraph Delivery

STORES IN

New London and Norwich, Conn.
and Westerly, R. I.

We cover the territory between
New Haven and Providence

ST. LOUIS, MO.

FRED C. WEBER
4326-28 Olive St.

Member Florists' Telegraph Delivery Association
NOTICE INITIALS. We have one store only

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

The Far-Famed Flowers of
TORONTO

Delivered on mail or telegraph order for any occasion, in any part of the Dominion.

JOHN H. DUNLOP
8-10 West Adelaide St. - TORONTO, ONT.
ALBANY, N. Y.

EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

106 STATE STREET, ALBANY, N. Y.

"THE HOME OF FLOWERS"

The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention

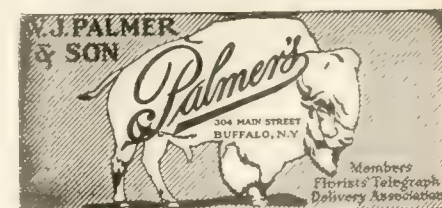
HOLM & OLSON, Incorporated
ST. PAUL, MINN.

The Park Floral Co.

J. A. VALENTINE, Pres.

Members Florists' Telegraph Delivery.

DENVER, COLORADO



KERR ORDERS FOR TEXAS
HOUSTON, TEXAS

The Florist Member F. T. D. Association

NEWS ITEMS FROM EVERYWHERE

CHICAGO.

Wm. Van Dame, president of the Rapid Wrapper Co., is about again after an operation for appendicitis.

H. G. Maclellan, who was operated upon recently for appendicitis, is able to be at home but is still confined to the house.

Store and office furnishings are being rapidly installed for the new store of Kennicott Bros., to which they will move shortly.

Henry C. Dunn, formerly with Wm. T. Scofield, has opened a store for himself in the next block, at 807 N. State street.

Lord & Burnham Company have moved their offices from the Rookery Building to the Continental and Commercial Bank Building.

The formal opening of the new residential Parkway Hotel, facing Lincoln Park at Garfield Ave., called for the use of many flowers from the north side florists May 8th.

Chas. Schneider has for several years proved that a ground floor was not an absolute necessity for a retail flower store, but he is now showing that it is more desirable by moving to 6 W. Jackson Boulevard.

The Geo. Wittbold Co. has executed \$25,000 worth of 6 per cent. serial first mortgage gold bonds which are now being offered for sale. This is to take up a loan now due on the Edgebrook property and to make further improvements.

The Foley Greenhouse Manuf. Co. is now building two fine private greenhouses, one for Mrs. C. H. McCormick on her Lake Forest estate and the other for W. L. Zelie at Moline, Ill. Both houses are of the curved eave iron-frame type.

There is a marked decrease in the amount of floral display, both natural and artificial, being used in the big State street stores this spring. Old Glory reigns supreme and beside the wide flag-draped aisles flowers seem almost out of place.

August Poehlmann, president of Poehlmann Bros., has been indisposed lately and went to Lake View hospital last week for rest and treatment. His son Earle has filed his application for admission to the officers' training station at Fort Sheridan, Ill.

A. Longren, who has just returned from a very satisfactory trip through the northwest, reports sales of florists' supplies away ahead of those of last year, and his opinion is that the war situation is not going to seriously injure the flower business, unless florists themselves bring it about by an undue amount of fear.

The effort to save the Dunes along the southern shore of Lake Michigan by making that section a National park, is having an uplift in the Memorial Day exercises there. The special feature is a Dunes Pageant with woods

and lake for a setting, which will draw thousands of people who have never visited that spot before.

The prices for Mothers' Day are supposed to be in effect all the previous week and are so quoted in the column for that purpose. The market being rather quiet, buyers on the spot have not been held strictly to quotations. Orders are now on the books for a sufficient amount of shipping stock to make it sure that a good week is ahead.

There are very few blooming plants in the market at this time. The hybrid calceolarias have been making a fine showing in the windows of the loop flower stores where their beautiful brilliant colors gave a much needed brightness during the cold backward spring, but these plants are about through blooming now, leaving pelargoniums to take their place. The beautiful variety Easter Greeting with its sports have such masses of large blooms that a good plant closely resembles a well-grown azalea with its rounded top almost hidden with bloom.

ST. LOUIS.

Alex. Siegel is, we are sorry to say, pretty low and unable to get around.

J. J. Beneke is better and every one was pleased to see him at his post again at the Cut Flower Co.

A burglar attempted to ransack the office of C. A. Kuehn but only succeeded in breaking a window glass.

Walter Young, of C. Young & Sons, recently married, will leave shortly to join his regiment, Battery A, for the front.

The Plant and Flower Growers' Association met at Eleven Mile House, Wednesday evening, May 2nd. A good attendance was there. W. A. Rowe was elected president; A. S. Cerny, vice-president; Joe Deutchmann re-elected secretary; August Hartmas re-elected treasurer; Albert Scheidder, trustee.

PHILADELPHIA.

J. Horace McFarland, of Harrisburg, will give an illustrated lecture in the auditorium of the Twentieth Century Club, Lansdowne, Delaware Co., Pa., on the evening of June 8th, under the auspices of the Lansdowne Flower Show Association. The public is invited. No charge for admission. Samuel S. Pennock is president of the society and asks that all his friends and their friends show up and give fitting greeting to a most distinguished flower enthusiast and at the same time pass a pleasant and instructive evening. The annual spring show of the society will be held at the same place on the following day—June 9th.

Hobart, Ind.—E. H. Kellon has purchased the business and greenhouses of A. Londenberg, who has left for Tampa, Fla.

BOSTON.

Edward I. Farrington will entertain the Gardeners' and Florists' Club next Tuesday evening with a stereopticon lecture on "What's New in the Garden."

At a meeting of the directors of the Boston Flower Exchange last Saturday, it was voted to send a check for twenty-five dollars to the Mothers' Day fund.

Robert Burns, of the Sutermeister estate at Readville, who was seriously injured by being run down by an automobile is said to be recovering satisfactorily at the Massachusetts General Hospital.

Sixty-two separate lots 50 by 100 feet have been staked out on the new campus of Tufts College for the purpose of cultivating the land. These lots were assigned to the residents of Somerville.

Amid the crowing of roosters and the chatter of small birds, firemen fought a fire in a chicken brooder at the Stapler Seed Company, 261 Purchase street, last Tuesday morning. Three hundred and twenty-five small chicks inside the brooder perished when the kerosene heater exploded.

J. K. M. L. Farquhar gave a talk on Back Yard Gardens before a large audience in the Public Library lecture hall, last Sunday afternoon. There was enthusiasm unlimited and long after the lecture proper was over a crowd lingered around the speaker deluging him with questions.

More than 500 South End boys and girls under 15 years recently accepted the offer of Miss Mildred Champagne to provide an acre of land near her theatre on Berkeley street, which they will plant and care for and from which they will receive the harvest. Garden seeds and tools will be provided and an expert gardener will be in attendance during the summer.

Several members of the Women's G. A. of Boston have written to Mayor Curley and John H. Dillon, chairman of the Park and Recreation Department, requesting that the plowing and planting of the Franklin Park golf course be postponed until other opportunities for the raising of foodstuffs are exhausted. The letter was turned over to the sub-committee on food production of the Boston Public Safety Committee, of which Robert S. Peabody is chairman. Mr. Peabody says there will be no stopping and that all available land in the vicinity of Boston which can be used for cultivation will be taken for that purpose.

The officers-elect of the newly organized Binghamton (N. Y.) Florists' Association are as follows: President, William Baker, Suskana Flower Shop; vice-president, J. W. Beckwith; secretary-treasurer, A. M. Fancher. The new society starts with very promising auspices.

ROCHESTER, N. Y.

George Prindle, of Salter Bros., is suffering with tonsillitis.

George Cramer and Henry Crouse have left on a fishing trip to Conesus Lake.

J. M. Keller, Will and Wilfred Keller are on a fishing trip to Wanakesia in the Adirondack Mountains.

According to a transfer tax affidavit it appears that the net value of the late Wm. C. Barry's estate is placed at \$629,129.80.

In the recent window potfery display contest Rochester Floral Co. received third prize and Edwin C. Kalber, Inc., received fourth.

George T. Boucher is making a specialty of garden craft novelties, and also pushing garden and vegetable seeds as a department of his flower store.

George Rauchy, formerly with Frank Purrsell as rose grower for 18 months, has returned to Clifton as foreman in the rose houses of Robert Simpson.

Earl Schmidt, who has been connected with Geo. B. Hart's wholesale establishment, has joined the coast artillery, now stationed at Fort Banks, Mass.

PITTSBURGH.

Gilbert Ludwig has just completed serving two weeks as a juror in the Common Pleas Court.

Oscar A. C. Oehmler, grower and retailer of Washington, D. C., spent a few days on the North Side last week.

County Agriculturist, Norman S. Grubbs, returned last Tuesday from a several days' visit with friends in Sharon, Pa.

Karl Voelker, of The Arcade Flower Shop, has the heartfelt sympathy of his many friends in the death of his mother, Mrs. C. L. Voelker, on April 27.

John F. Zimmerman, formerly on Penn Ave., Pittsburgh, E. E., has removed to his new location in Emsworth. He will transact business in Emsworth but expects to keep his former trade in Pittsburgh. His mail address is now Bellevue, Box 347A., R. F. D.

Frank P. Smoller will leave next Tuesday with Battery E, First Field Artillery, N. G. W. S., which has been ordered to Mt. Gretna, with the expectation of later going to one of the coasts. Mr. Smoller is a designer and salesman for Walter A. Faulk of the North Side, and saw extended service including a month's hospital experience on the border.

NEW YORK.

The Skinner Irrigation Company has established a selling office at 131 Hudson street, under the management of Charles H. Allender.

The regular monthly meeting of the N. Y. Florists' Club will be held as usual on Monday evening, May 14. Important business, plenty of it.

The annual spring plant market is now well established under the Queensboro bridge, at East 60th St. The busy hours are from 2 to 6 A. M.

We are pleased to be able to announce that Percy Richter, salesman at J. S. Fenrich's wholesale flower store on 28th street, is in a fair way to recovery from a serious attack of pneumonia.

PERSONAL.

C. L. Brock, formerly superintendent of parks, Houston, Texas, was appointed chief of police May 1st.

Announcement is made of the engagement of Miss Mabel Edythe Dickinson, daughter of Mr. and Mrs. William H. Dickinson, of New Haven, Conn., to John Joseph Sokol, the florist, of the same city.

Antoine Leuthy, Boston's widely known plantsman, was married on April 23 to Miss Christina Matilda Anderson at Roslindale, Mass., and the happy pair has just returned from a two weeks' honeymoon trip southward.



ANTOINE LEUTHY

Mr. Leuthy's friends had long given him up as a confirmed old bachelor but at last he has done the right thing. The accompanying picture was published in these columns some time ago. He does not look at all like that now. That lonesome, wistful expression has gone completely. He has taken our advice and joy reigns.

NEWS NOTES

Woodburg, N. J.—Fire destroyed the greenhouses of Dennis D. Cuncun, near Westville. The loss is \$10,000. The origin of the fire is not known.

Claremont, N. H.—Lester Merrill of New Hampshire College will act as manager of the Bugbee greenhouses on Maple avenue this summer, while Ralph Bugbee is occupied with his duties as assistant to the County Agent in the campaign for home gardens. Mr. Merrill is a junior at the state college and is specializing in garden work.

Rockville, Conn.—At the present time 126 plots of land, nearly a million square feet, that was never cultivated before, have been distributed to home garden farmers and there is still a big demand for more. The chairman of the public gardens committee secured fifty-five bushels of potatoes from the Connecticut Food Supply Committee. These potatoes have been over ordered by fifteen bushels.

VISITORS' REGISTER.

Cincinnati—Milton Alexander, New York.

Rochester, N. Y.—F. H. Moore, Sifton Mfg. Co., Chicago.

Pittsburgh—Robert Shoch, Phila.; O. A. C. Oehmler, Washington, D. C.

Boston—Jos. J. Lane, Garden Magazine, Garden City, N. Y.; Robert Kift, Phila., Pa.

Philadelphia — Felix Albert, Lenox Flower Shop, Buffalo, N. Y.; Edward Dory, De La Mare Co., N. Y. City; George W. Hess, Washington, D. C.; John Horn, Allentown, Pa.; Chas. Loechner, New York City.

Chicago—Mr. and Mrs. Paul M. Halbrooke, Newark, Ohio; A. N. Holt, Kirkwood Floral Co., Des Moines, Ia.; O. J. Eichen, Duluth Floral Co., Duluth, Minn.; W. Harry Hankinson, repr. Ralph W. Ward & Co., N. Y.; A. E. Turner, Rosin & Turner, Mosinee, Wis.; Ella Kaber, Kaber Floral Co., La Porte, Ind.

A FIRST PRIZE DISPLAY OF FLORAL POTTERY.

The accompanying picture shows a window display by F. R. Pierson, Tarrytown, N. Y., of art pottery such as is now an indispensable adjunct to the regular furnishing and stock of a first-class flower establishment. Mr. Pierson writes as follows:

"We are mailing you under separate cover a photograph of one of our windows, which has just been awarded first prize, by the — Pottery Co., for display of their pottery. The competition was open to florists, and there were many entries. Mr. — writes us as follows: 'All the windows submitted were excellent,—adding to your credit of receiving this award.'

"The larger pieces in the picture were used by us in our display of roses at the New York Flower Show and for which we were awarded first prize. The two garden vases—a beautiful shade of cucumber green—were also used in our first prize rose garden at the New York Flower Show."

Second prize in this window competition was won by Butler & Ullman, Northampton, Mass.

Nashua, N. H.—Warwick Snow, for the past 11 years superintendent of Woodlawn cemetery, has resigned and will move to Hollis, where he has purchased the Colburn place with the greenhouses. Mr. Snow will devote his time to the raising of market produce and flowers. L. B. Colby, who was Mr. Snow's assistant, has been elected by the trustees to the position of superintendent, and Harry Gidge has been appointed assistant to Mr. Colby. These changes took place on May 1st.

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There will be a tremendous demand this year for these goods. A Full Line of Bridal Accessories for the June Wedding Decorations. STOCK UP NOW.

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BEAUTIES

as we can furnish you give satisfaction
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CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

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ROSES OUR SPECIALTY

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1615 Ranstead St., PHILADELPHIA, PA.

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Telephone, Main 6267-6268

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON May 10		ST. LOUIS May 7		PHILA. May 7	
Roses						
Am. Beauty, Special	20.00	to 30.00	.....	to 40.00	20.00	to 30.00
" " Fancy and Extra	10.00	to 15.00	20.00	to 30.00	12.00	to 20.00
" " No. 1 and culls	3.00	to 10.00	5.00	to 10.00	4.00	to 10.00
Russell, Euler, Mock	2.00	to 12.00	3.00	to 15.00	4.00	to 20.00
Hadley	2.00	to 18.00	8.00	to 12.00	3.00	to 12.00
Arenberg, Hoosier Beauty	1.00	to 6.00	.....	to 5.00	3.00	to 10.00
Ward	1.00	to 6.00	4.00	to 8.00	2.00	to 6.00
Killarney, Radiance, Taft	1.00	to 6.00	3.00	to 4.00	2.00	to 8.00
Ophelia, Sunburst, Hillingdon	1.00	to 8.00	3.00	to 8.00	3.00	to 10.00
Key	1.00	to 6.00	.....	to 4.00	4.00	to 10.00
Carnations	6.00	to 8.00	2.00	to 4.00	1.50	to 5.00
Cattleyas	30.00	to 75.00	.....	to 50.00	40.00	to 70.00
Dendrobium formosum	.....	to 50.00	.....	to 50.00	.....	to 50.00
Lilies, Longiflorum	4.00	to 8.00	8.00	to 12.00	6.00	to 8.00
Lilies, Speciosum	.....	to 8.00	8.00	to 10.00	6.00	to 10.00
Callas	4.00	to 8.00	4.00	to 6.00	3.00	to 8.00
Lily of the Valley	4.00	to 8.00	4.00	to 10.00	2.00	to 10.00
Snape dragon	3.00	to 6.00	4.00	to 10.00	3.00	to 10.00
Daffodils	.50	to 1.00	2.00	to 3.00	2.00	to 3.00
Narcissus, Paper White	.....	to 1.00	.....	to 1.00	.....	to 1.00
Roman Hyacinths	.....	to 1.00	.....	to 1.00	.....	to 1.00
Freesia	.....	to 1.00	.....	to 1.00	.....	to 1.00
Tulips	1.00	to 2.00	2.00	to 4.00	.....	to 1.00
Calendulas	1.00	to 2.00	.....	to 1.00	1.00	to 3.00
Sweet Peas	.25	to 1.25	.25	to .50	.40	to 1.00
Violets	.....	to 1.00	.....	to 1.00	.....	to 1.00
Marguerites	1.00	to 2.00	.....	to 1.00	.50	to 1.50
Gardenias	2.00	to 25.00	.....	to 1.00	2.00	to 15.00
Adiantum	1.00	to 1.50	.....	to 1.00	1.00	to 1.50
Smilax	12.00	to 20.00	12.50	to 15.00	20.00	to 25.00
Asparagus Plumosus, & Spreng. (100 Bchs.)	25.00	to 35.00	25.00	to 50.00	25.00	to 50.00

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ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER of

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PEONIES

Rather early to forecast the Peony situation for Memorial Day, but every indication now, that we will have a good supply of splendid quality, all colors, and the better varieties.

\$8 and \$10 per 100

New Crop Local Ferns ready about May 20th, \$2.50 per 1000. In 5000 lots, \$2.00 per 1000

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Flower Market Reports

BOSTON This market is quite bare of flowers and while there is not much advance in price quotations except on carnations and lily of the valley there are no bargain sales or "lump sums" and everything brings standard figures if of proper quality. Lilacs from the south and splendid candytuft and stocks in moderate quantities have been added to the general stock. With the exception of daffodils and pansies there is nothing that suggests a surplus, the dark weather of the past week having cut down the supply. Carnations are the only item yet affected by the approach of Mothers' Day but it is expected that other things will feel the impetus toward the end of the week. Last Sunday the thermometer in Boston was only four degrees shy of the freezing point for a minimum reading and barely reached 40 for a maximum. Unseasonably cold and dark has been the weather for May thus far and the question of flowers for Memorial Day begins to loom up as an uncanny spectre. It will require some pretty hot days to bring outdoor material along to its normal condition for May 30, but it is too early yet to venture on estimates.

CHICAGO Cold winds and cloudy skies are holding back stock which could be used to good advantage this week. The market is using up all the flowers which come in each day, but nevertheless the stir and hurry is wholly lacking and one has the feeling of a dull season even though this is not the case. Orders for Mothers' Day are coming in rapidly and some of the largest houses have reached their booking capacity and are turning down orders now, May 8th. Carnation prices will be high and it is expected that instead of the price breaking before Memorial Day, it is more likely to advance. It is gratifying to note that orders for the coming holiday include many roses. Instead of the over-supply of a short time ago, stock is on the short side and roses too will be quite

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI May 7	CHICAGO May 7	BUFFALO April 30	PITTSBURG April 30
Roses				
Am. Beauty, Special.....	30.00 to 35.00	35.00 to 40.00	20.00 to 25.00	25.00 to 30.00
" " Fancy and Extra.....	20.00 to 25.00	20.00 to 35.00	15.00 to 20.00	18.00 to 20.00
" " No. 1 and culls.....	8.00 to 15.00	4.00 to 10.00	3.00 to 5.00	12.00 to 15.00
Russell, Euler, Mock.....	6.00 to 15.00	3.00 to 25.00	8.00 to 12.00	6.00 to 10.00
Hadley.....	6.00 to 15.00	..... to 4.00	4.00 to 8.00	..... to 10.00
Arenberg, Hoosier Beauty.....	5.00 to 12.00	3.00 to 12.00	3.00 to 8.00	6.00 to 12.00
Ward.....	4.00 to 8.00	3.00 to 10.00	2.00 to 6.00	..... to 10.00
Killarney, Radiance, Taft.....	4.00 to 10.00	3.00 to 10.00	3.00 to 6.00	4.00 to 12.00
Ophelia, Sunburst, Hillingdon.....	6.00 to 12.00	3.00 to 12.00	3.00 to 6.00	6.00 to 15.00
Key.....	..... to 8.00	..... to 8.00	8.00 to 10.00	..... to 10.00
Carnations	6.00 to 8.00	3.00 to 8.00	1.50 to 3.00	3.00 to 4.00
Cattleyas.....	..... to 50.00	75.00 to 100.00	40.00 to 50.00	60.00 to 75.00
Dendrobium formosum.....	..... to 10.00	..... to 12.00	..... to 10.00	..... to 10.00
Lilies, Longiflorum	10.00 to 12.50	8.00 to 12.00	8.00 to 10.00	8.00 to 10.00
Lilies, Speciosum.....	..... to 8.00	..... to 10.00	3.00 to 4.00	..... to 10.00
Callas	8.00 to 10.00	6.00 to 10.00	6.00 to 10.00	..... to 10.00
Lily of the Valley.....	..... to 6.00	5.00 to 6.00	5.00 to 7.00	4.00 to 6.00
Snapdragon	6.00 to 12.50	6.00 to 12.00	4.00 to 8.00	4.00 to 8.00
Daffodils	2.00 to 3.00	3.00 to 4.00	1.00 to 2.00	..... to 2.00
Narcissi, Paper White.....	..... to 1.00	..... to 1.00	1.00 to 2.00	..... to 2.00
Roman Hyacinth.....	..... to 1.00	..... to 1.00	1.00 to 2.00	..... to 2.00
Freesia.....	..... to 2.00	2.00 to 3.00	2.00 to 3.00	..... to 3.00
Tulips	2.00 to 4.00	2.00 to 3.00	1.00 to 2.00	..... to 2.00
Calendulas	2.00 to 3.00	..... to 2.00	1.00 to 3.00	2.00 to 4.00
Sweet Peas	50 to .75	.50 to 1.50	.50 to 1.50	.50 to 2.00
Violets.....	..... to 1.00	..... to 1.00	.30 to .50	..... to 1.00
Marguerites.....	..... to 1.00	..... to 1.00	1.00 to 1.50	1.00 to 3.00
Gardenias.....	..... to 15.00	15.00 to 20.00	10.00 to 15.00	..... to 15.00
Adiantum.....	..... to 1.00	1.00 to 1.25	..... to 1.00	.75 to 1.25
Smilax.....	..... to 15.00	15.00 to 25.00	..... to 15.00	..... to 15.00
Asparagus Plu. & Spreng. (100 Bhs.)	25.00 to 50.00	25.00 to 50.00	25.00 to 35.00	30.00 to 50.00

likely to advance still more near the week end. Peonies are the latest arrivals but in limited quantities, and the buyers do not seem anxious to buy. Sweet peas are very good. Snapdragons of splendid quality and iris in three colors are all to be had in any quantity, while the supply of smaller miscellaneous flowers is good also. It looks now as if much business would be done for Memorial Day and that prices would hold up until the last.

Advance orders for Mothers' Day are exceptionally heavy and judging from their source it seems that there is a shortage of flowers

throughout this section of the country. Wholesale prices have mounted to a plane unheard of heretofore for this time of the year, even for a special day. Stock is not very plentiful, having suffered somewhat of a setback because of the cloudy weather of the past week. The supply of roses is short of actual needs and more carnations could be used. Lilies continue plentiful and serve to help out the shortage in other lines. A good cut of sweet peas is coming in and snapdragons are fairly plentiful. Large quantities of outdoor lily of the valley and lilac have been coming into the

(Continued on page 629)



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For the Retailer or for the Grower
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DONNA AND ALL OTHER ROSES, LILIES, CARNATIONS, VIOLETS,
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NEW YORK QUOTATIONS PER 100. To Dealers Only**ROSES AND CARNATIONS**

	Last Half May 5 ending of Week 1917		First Half of Week beginning May 7 1917	
American Beauty, Special	25.00	to 30.00	25.00	to 30.00
" " Fancy and Extra	15.00	to 20.00	15.00	to 20.00
" " No. 1 and culls	4.00	to 8.00	4.00	to 8.00
Russell, Euler, Mock	1.00	to 12.00	3.00	to 12.00
Hadley	3.00	to 40.00	3.00	to 40.00
Arenberg, Hoosier Beauty	.50	to 8.00	2.00	to 8.00
Ward	.50	to 6.00	2.00	to 8.00
Killarney, Radiance, Teft	.50	to 8.00	2.00	to 8.00
Ophelia, Sunburst, Hillingdon	.50	to 8.00	2.00	to 8.00
Key	1.00	to 8.00	2.00	to 8.00
Carnations	1.00	to 3.00	3.00	to 8.00

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WHOLESALE FLORISTS

55-57 West 26th Street

Telephones, 13—5510 Madison Square

Consignments Solicited

MAURICE L. GLASS, Treasurer

Flower Market Reports

(Continued from page 627)

wholesale houses. Other offerings include peonies, gladioli, iris and callas. New southern ferns may be had.

Weather conditions of NEW YORK late have relieved a bad market situation and made it possible with the help of a little extra demand to clean up in fairly good shape. This week a general appreciation in prices has prevailed. Roses were in better demand but carnations benefited mostly for they were in smaller supply and Mothers' Day is near. American Beauties and Hadleys are in particular favor and are going at prices above last week's quotations. Ward and red in carnations have sold best but white now takes the lead. Corn flowers have been in brisk demand of late, owing to a number of dinners requiring the national colors for the decorations. The market is very well supplied with lilies, snapdragon, tulip, jonquils and yellow and white daisies, all of good quality and meeting with only a moderate demand. Cattleyas are going well and lily of the valley is scarce. It is probable that there will be a good cut of white carnations for Mothers' Day as there have been more white carnations in the market this season in proportion to colors, but indications are strong that they will fall far short of requirements. Southern lilacs are coming in heavily and Spanish iris are in overstock.

Clearings last PHILADELPHIA week in the wholesale centers here were on an improved basis and general conditions have been more satisfactory from the growers' standpoint. This was especially the case at the finish of the market last week Friday and Saturday. The weather continues cool and cloudy, which has its effect in curtailing production. Carnations especially feel the effect of the improved conditions. Today the retail men are seriously considering shock absorbers across their chests to prevent heart disease. Six cents for the best carnations and worse to come. Highway robbery is mild. They are looking up time tables for New York. Look out Manhattan. You don't know our old "Iron Faces" yet!

As the days lengthen the flower crop weakens, which augers ill for Mothers' Day. There is a discouraging shortage of blooms. The demand is far beyond the supply and the wholesalers can not begin to meet the wants of their customers. They have several times as many orders as it is possible to fill.

Business has been ROCHESTER very quiet for several days, but Saturday saw a sudden spurt in business, which cleared up market stock nicely. Lilies, daisies, forget-me-nots, mignonette and snapdragons are very plentiful. The violet season is about ended. Bachelor buttons sell well owing to the demand for patriotic corsages and decorations of red, white and blue. Orchids and sweet peas are plentiful and in demand.

PATRICK WELCH, WHOLESALE FLORIST

262 DEVONSHIRE STREET, BOSTON, MASS.

American Beauties, Orchids, Valley, Carnations. All the novelties in the Cut Flower Market furnished on short notice. Prices quoted on application. No retail orders accepted. Flowers shipped out of Boston on early trains.

STORE OPEN FOR BUSINESS AT 6 A. M. TELEPHONE MAIN 2608.

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106 West 28th St., NEW YORK
Tel. Farragut 3086

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending May 5 1917	First Half of Week beginning May 7 1917
Cattleyas	20.00 to 50.00	25.00 to 50.00
Dendrobium formosum	..... to 50.00	..... to 50.00
Lilies, Longiflorum	2.00 to 4.00	4.00 to 6.00
Lilies, Speciosum	2.00 to 6.00	2.00 to 6.00
Callas	3.00 to 6.00	3.00 to 6.00
Lily of the Valley	3.00 to 8.00	3.00 to 8.00
Snapdragon	1.00 to 5.00	1.00 to 5.00
Daffodils	.50 to 1.50	.50 to 1.50
Spanish Iris	1.00 to 3.00	1.00 to 3.00
Roman Hyacinths	..... to .....	..... to
Freesia	..... to .....	..... to
Tulips	1.00 to 2.00	1.00 to 2.00
Calendulas	.50 to 1.00	.50 to 2.00
Sweet Peas	.15 to 1.00	.15 to 1.00
Violets	..... to .....	..... to
Marguerites	1.00 to 2.00	1.00 to 2.00
Gardenias	4.00 to 30.00	4.00 to 30.00
Adiantum	.50 to 1.00	.50 to 1.00
Smilax	15.00 to 20.00	15.00 to 20.00
Asparagus Plumosus, & Spren (100 bunches)	15.00 to 25.00	15.00 to 25.00

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Always Ready to Receive Consignments and Can Market Them Satisfactorily. Wanted Specially, Early Peonies, Gladioli, etc., for Spring Trade.

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COMMISSION DEALER

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HOME GROWN ASPARAGUS

CUT FLOWERS

IN ANY QUANTITY

55-57 W. 26th St. NEW YORK

ST. LOUIS Frosty and rainy weather prevailed all last week. Carnations have stiffened in price with prospects that Mothers' Day prices, especially in white, will be sky high, which is to be regretted as it will kill Mothers' Day as it did McKinley day. Roses also have stiffened in price.

UNITED CUT FLOWER CO., INC.

Flowers Sold on Commission
Consignments of
Good Stock Solicited

111 W. 28th St., - NEW YORK

Established 1888

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GUNTHER BROS.

Wholesale Commission Florists

110 West 28th St., New York

We Solicit Consignments of New
England Grown Novelties.

Beechwood Heights Nurseries

Importers and Growers of

ORCHIDS

Cut Flowers of All the Leading Varieties
in their Season.

THOMAS YOUNG, Jr., Proprietor

BOUND BROOK, N. J.

Also 57 West 28th St., NEW YORK.

REED & KELLER

122 West 25th St., New York

Florists' Supplies

We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
and are dealers in
Decorative Glassware, Growers and
Florists' Requisites

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display Advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

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AQUATIC PLANTS

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ASPARAGUS SEED

S. S. Skidelsky & Co., Philadelphia, Pa.
Plumosus Nanus.
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ASPARAGUS

Asparagus Plumosus Seedlings, \$1.00 per 100, \$6.00 per 1000. Ready May 1st. COLLINGDALE GREENHOUSES, Collingdale, Pa.

ASTERS

Henderson's Invincible, a fine Aster for cutting and trade pullers for your customers' own planting; separate colors, strong, transplanted plants, prompt shipment; \$5.00 per 1000. Cash. BRILL CELERY GARDENS, Kalamazoo, Mich.

AURICULA PLANTS

William Sim, Cliftondale, Mass.
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BEGONIAS

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NOW READY

Begonia Glory of Cincinnati
" Gloire de Lorraine
" Melior
" Mrs. J. A. Peterson

Cyclamen Seedlings, transplanted, 4 to 8 leaves, ready for 3-inch pots. Price List on application.

J. A. PETERSON & SONS,
Westwood, Cincinnati, O.

BEDDING PLANTS

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J. L. Chapman, Beverly Farms, Mass.
Bargains in Bedding Plants.

Geraniums, Nutt, Ricard, Viaud, Buchner, 4-in., \$8.00 per 100. Nutt and Rose Scented, 3½-in., \$6.00 per 100. Germany Ivy, Canna Robusta, 3½-in., \$6.00 per 100. Dracaena indivisa, 3-in., \$7.00 per 100. Geranium Salleri, Coleus Trailing Queen, Begonia Vernon, Blue Ageratum, White Daisy, 3-in., \$5.00 per 100. White Daisy, 4-in., \$15.00 per 100. Cash. F. SOKOL, College Street, Worcester, Mass.

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C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK BRANCH, 8-10 Bridge St.

CANNAS

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CARNATION STAPLES

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 1000 for 35c.; 3000 for \$1.00 post-paid. I. L. PILLSBURY, Galesburg, Ill.

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DAHLIAS

Peony Dahlia Mrs. Frederick Grinnell.
Stock For Sale.
JOHN P. ROONEY, New Bedford, Mass.

ORDERS BOOKED ANY TIME

For Fall or Spring delivery. Wholesale and Retail. Send for Catalogue. NORTHBORO DAHLIA & GLADIOLUS GARDENS, J. L. Moore, Prop., Northboro, Mass.

NEW PAEONY DAHLIA

John Wanamaker, Newest, Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to PEACOCK DAHLIA FARMS, Berlin, N. J.

DECORATIVE PLANTS

Julius Roehrs Co., Rutherford, N. J.
Choice Flowering and Foliage Plants.
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S. A. Nutt Geraniums, rooted cuttings,
\$1.25 per 100, \$10 per 1000; unrooted cut-
tings, 75c. per 100, \$6 per 1000. W. E.
ALLEN, 185 Exchange St., Leominster,
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Greenhouse glass, lowest prices. JOHN-
STON GLASS CO., Hartford City, Ind.

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Peerless Glazing Point.
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GOLD FISH

Gold fish, aquarium plants, snails, cas-
tles, globes, aquarium fish goods, nets,
etc., wholesale. FRANKLIN BARRETT,
Breeder, 4815 D St., Olney, Philadelphia,
Pa. Large breeding pairs for sale. Send
for price list.

GREENHOUSE BUILDING MATERIAL

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IRIS

Phlox, white or pink, \$3.00 per 100.
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- HASSALL & CO., Orchid Growers and
Raisers, Southgate, London, England. Im-
mense stock of Cattleyas.

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PANSY PLANTS

- 200,000 large, stocky (Sept. transplanted),
field-grown blooming pansy plants, Henry
Mette's strain, all salable stock, satisfaction
guaranteed. \$1.25 per 100, \$11.50 per 1000.
Cash. Prompt shipping.
- BRILL CELERY GARDENS,
KALAMAZOO, MICHIGAN.

PETUNIAS

- R. Vincent, Jr. & Sons Co., White Marsh,
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PEONIES

- Peonies. The world's greatest collection.
1200 sorts. Send for list. C. BETSCHER,
Canal Dover, O.
- Complete manuals on the Peony, Iris and
Phlox. 25 cents each in stamps. C. S.
HARRISON, York, Nebraska.

PHLOX

- Iris. German, 10 named varieties, \$2.00
per 100. Japanese, white, purple, mixed,
\$5.00 per 100. AMON HEIGHTS NUR-
SERIES, Camden, N. J.

PECKY CYPRESS BENCHES

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- W. E. Marshall & Co., New York City.
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Seeds That Are Scarce.

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SPHAGNUM MOSS

- Live Sphagnum moss, orchid peat and
orchid baskets always on hand. LAGRE
& HURRELL, Summit, N. J.

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- Ant. C. Zvolanek, Lompoc, Calif.
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- R. Vincent, Jr. & Sons Co.
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- Celery plants, Golden Self Blanching
(French strain), also the grand new Easy
Blanching variety, which is easy to grow;
fine plants, ready for the field, \$2.00 per
1000, or \$8.75 for 5000. Cash. BRILL
CELERY GARDENS, Kalamazoo, Mich.

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Est. 1765

Inc. 1904

Pot Makers for a
Century and a Half**HEWS****STRONG
RED
POROUS****POTS**World's Largest
ManufacturersStandard, Azalea, Bulb, Orchid, Fern, Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.Write for Catalogue
and Discounts**A. H. HEWS & CO., Inc., Cambridge, Mass.**Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.**WHOLESALE FLORISTS
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For page see List of Advertisers.W. R. Siebrecht, 114 West 28th St.
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No.	Diam.	Ea.	Doz.	100
10	20 in.	\$1.60	\$17.50	\$145.00
20	18 in.	1.45	15.50	130.00
30	16 in.	1.10	12.25	100.00
40	14 in.	.70	7.75	60.00
50	12 in.	.50	5.50	45.00
60	10 in.	.40	4.40	35.00
70	8 in.	.30	3.50	28.00

Manufactured for us exclusively. The best tub ever introduced. The neatest
lightest and cheapest. Painted green, with electric welded hoops. The four largest
sizes have drop handles.**HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.****WHOLESALE FLORISTS
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N. W.
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DAY.**Welch's, Boston, Mass.
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Walter Gott, McAlpine Hotel, N. Y. City.
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For page see List of Advertisers.**STANDARD FLOWER
POTS**If your greenhouses are within 500
miles of the Capitol, write us; we can
save you money.**W. H. ERNEST**
29th & M Sts., Washington, D. C.**WANTS, FOR SALE, Etc.****HELP WANTED**WANTED—Man with experience in
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Telephone, Newton North 404.WANTED—A young man with some ex-
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stand fruit, flowers and pot plants. Wages,
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Experienced in vegetable, greenhouse, fruit
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are planted in roses. The place is espe-
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the city. Apply to Mrs. George Ander-
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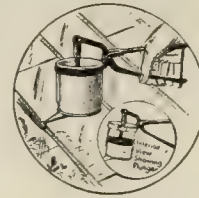
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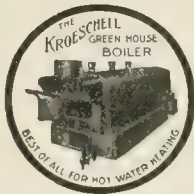
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HOT BED SASH

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Send for circular and prices.
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We go anywhere in the U. S. to submit plans and prices.

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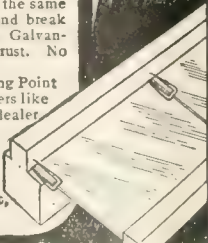
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Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts. The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

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No. 2**



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NORTH TONAWANDA N.Y.

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TO LAST**

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GREENHOUSES**

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BEST BRANDS

LOWEST PRICES

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20c
With Bolts
Complete

Made for 2 6-inch boards or two lines of 1-inch or 1 1/4-inch pipe and can be clamped on 1 to 2-inch upright pipe columns.

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12 x 20 x 3 inches — 8 cents

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Glazing

USE IT NOW

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HOT-BED SASHES**

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Metropolitan Commercial Greenhouses are built to produce the maximum of results.

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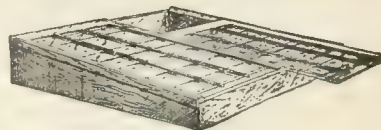
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UP TO US**

We go anywhere in the U. S.
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We have in stock thousands of all kinds for immediate shipment.

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AND PUTTY.**

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HERE is a man who in the face of prevailing prices of material, took out his knife, sharpened his pencil, and did some tall figuring. As a result of that figuring, he ordered five houses 76 feet by 600 feet.

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To say it still another way: by the time materials have gone down, the profits will have more than covered advance costs and some to spare.

But that isn't all—he will have gained a grip on the market that will protect him against the competition that is bound to come along when materials are lower.

It gives him a running start on the other fellow.

Why don't you do the same?

When you are ready to talk building—say when and where and we'll be there.



263
75
9
52
36
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7
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21
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192
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635
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84
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450
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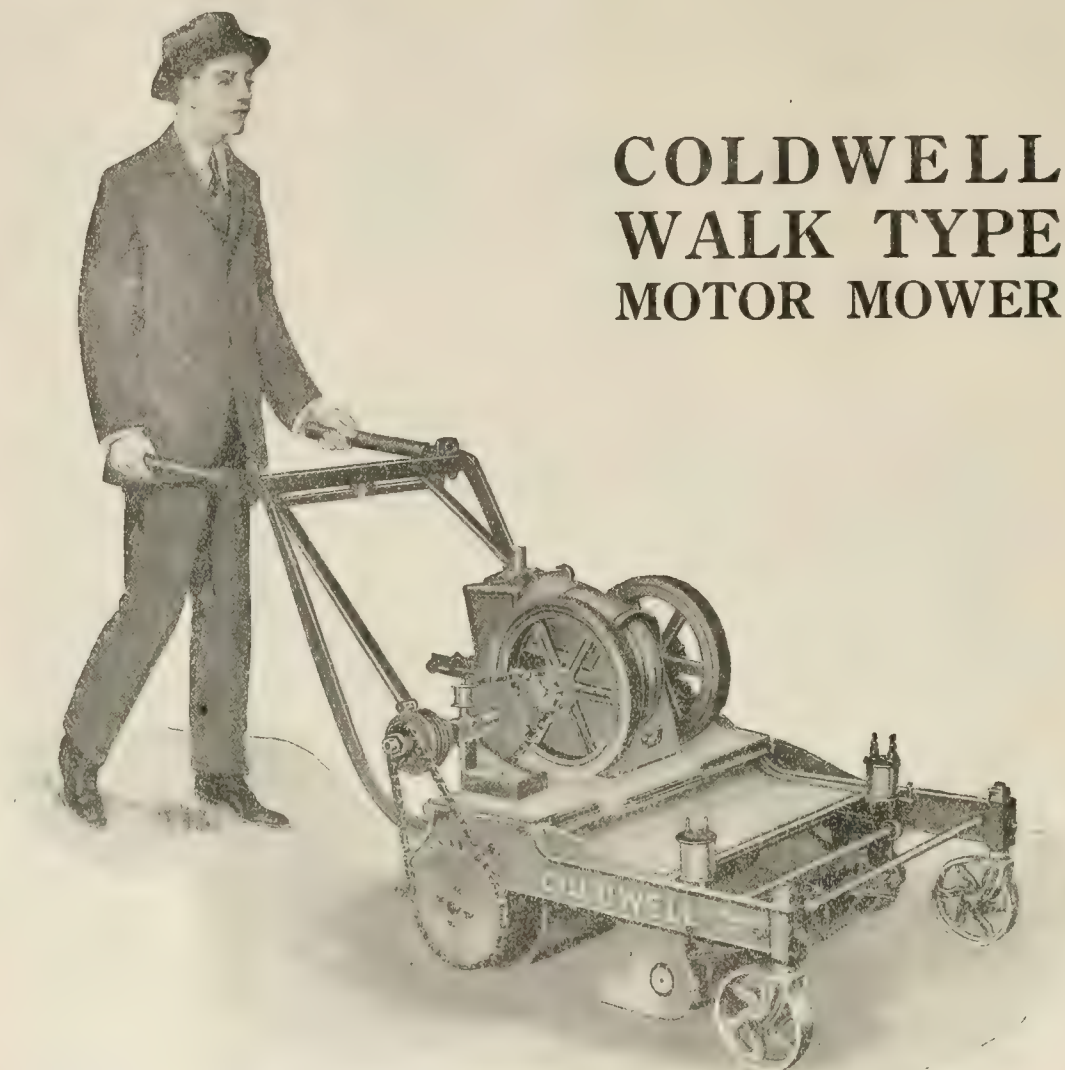
Vol. XXV
No. 20
MAY 19
1917

HORTICULTURE



View of the Beautiful New Flower Store of W. J. Palmer & Son, Buffalo, N. Y.

Published Every Saturday at 147 Summer Street, Boston, Mass.
Subscription \$1.00



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The Coldwell Walk-Type Motor Mower cuts the grass and rolls the lawn. Rapid, thorough, tireless—it consumes little fuel, cuts an acre an hour.

Does all the work of cutting the lawn, requiring nothing but guidance.

A sturdy little Motor Mower of the *walk-type* will negotiate any grade that a horse mower would be used on.

It is made in three sizes—30", 35" and 40" cut, with rolling weights ranging from 900 to 1100 pounds.

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NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toil, we ought to blame the culture, not the soil."—Pope.

Amaryllis

Seedlings sown early in the year should be potted off singly into 2½-inch pots when they show their second leaves. Use a light compost containing two-thirds leafmold at the first potting. With a moist atmosphere and an abundance of syringing they will make lots of roots where there is a good bottom heat. When they are fairly well rooted they should be potted into 4 or 5-inch pots. Always grow as near as possible to the glass or they will get badly drawn. Take advantage of every bright day to give a good syringing both under and over the foliage. When a strong force of water is directed, especially against the under side of the leaves, you help to keep the many insects under control. Provide well enriched soil and be very careful about drainage in each pot as nothing hurts these plants as much as a poor drainage. When the weather gets real warm they can be plunged in frames near to water. Here they can be given lots of ventilation during the hot days.

Allamanadas

With the rush of the bedding-out season and Memorial Day these are liable to be neglected. If they have been somewhat crowded, spread them out and where necessary give them one or two short stakes. The night temperature may be kept at about 70 degrees with a rise of 10 or 15 degrees in the day. It is essential to give ventilation to keep the temperature at the right mark. Damp down two or three times a day to keep the atmosphere moist. Allamanada Williamsii is one of the most valuable of summer flowering pot plants. Allamanadas are easily propagated from soft wood cutting of this season. Place in sand over a bottom heat of 75 degrees. Probably the better method is that of putting each cutting into a thumb pot, first filling the pot with sand and peat, or sand and leaf mold in equal proportions. Shading will be necessary for a while. In about three weeks the cuttings will have rooted.

Chrysanthemums

Cuttings should not remain too long in sand but be potted off as soon as rooted. Ordinary good soil is all they want at present. The shifting into larger pots should not be delayed too long in the case of exhibition plants. Medium flowers net more money than the big ones. People may admire the latter, but they object to paying a price commensurate with their cost. We prefer cuttings which need no shortening back. Those three or four inches long are about right. It will be necessary to keep the cuttings well soaked a few weeks. In bright weather several dampings overhead will be required to keep them plump, and no good grower ever wants to see stock in the cuttings bench with a flaggy look. About 50 degrees is high enough. For general stock chrysanthemums may be propagated at any time until June, but for the production of high grade flow-

ers and for exhibition plants and blooms early propagation is essential. The earlier rooted cuttings are of little use, however, to the average country florist.

Cibotium Schiedei

During the spring these will need lots of moisture both at the roots and in the house. Give them sufficient ventilation and do not keep the house too humid as it makes them very soft. These handsome ferns should always be given an elevated position so as to retain the graceful sweep of their fronds. Where cibotiums are quite pot bound give them a weekly dose of liquid feeding. There is nothing better than cow manure, using about a bushel in a barrel that holds about fifty gallons of water. Let it stand for about two days and if too strong dilute it some. They can get this about once a week. While these ferns like shade they do not want it too heavy. Shading nine times out of ten is overdone with all kinds of ferns. When they become pot-bound shift into larger pots. They like a compost of fibrous loam, leaf mold, well decayed cow manure and sand in equal parts.

Canterbury Bells

To get good plants for flowering next year, sow the seed at once, then transplant into flats and later plant outdoors in well manured ground, allowing twelve inches between the rows. A common mistake is sowing the seed of these beautiful biennials too late. Nice plants may be had in 7-inch or 8-inch pots. Canterbury bells are handsome border plants, but are even finer in pots, when grown cool and given the necessary space for their proper development. Some are each year seen at Easter, but never of the quality obtainable later in the season. When large enough they should be planted in a rich soil, and all through the summer given good culture and an abundance of water during dry weather.

Care of Spiraeae

Dear Editor:

I would like to get, through your Mr. J. J. M. Farrell, information on the proper care of Spireas Gladstone, Queen Alexandra have them in good condition for next blooming, so as to and others, after they are through season.

P. F.

All spiraeas such as Gladstone and Queen Alexandra should be planted out in rich ground about 18 inches apart in rows and left until autumn of next year to be in good condition for forcing. They would not have enough of time to be in first-class condition for the first season. Keep cultivated and clear of weeds.

Reminder

Plant out any left-over azaleas, acacias, ericas and epacris. Pick away all loose soil from the roots, remove the drainage and be sure to plant freely. Give them a sunny location, where you can readily reach them with the hose.

Next Week: Alocasias; Dracaenas; Forcing Lily of the Valley; Hardy Perennials; Primulas; Reminders.

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A useful device

We have had inquiry repeatedly for information as to where a serviceable flower pot washing machine might be obtained and are glad to be able now to refer our readers to the advertisement which appears in this issue. We are informed that operators are turning out clean pots at the rate of 1,000 to 1,500 per hour with the machine and they are as clean as when they

come from the kiln. In view of the difficulty experienced in getting new pots from the factories this season and the scarcity and cost of hand labor at present we feel justified in making this specific mention. All successful growers insist on the indispensability of clean pots if best cultural results are to be attained.

"Cold feet?" The announcement of the abandonment for this year by the Lenox (Mass.) Horticultural Society of its time-honored

exhibition on account of existing economic conditions, brings home to us very impressively the seriousness with which the well-to-do and high society people regard the situation brought about by the world conflict into which our country has entered. Following so close on the throwing up of the Pittsburgh show plans this Lenox decision is something of a damper. We hope there will be no more cases of the same kind. It is worth recalling in this connection, that during the four years of awful civil strife, from 1861 to 1865, the weekly and annual exhibitions of the Massachusetts Horticultural Society were continued without any interruption and the period was one of practically unabated interest in all departments of horticulture.

Mothers' Day reports and comments as received from different quarters indicate

Varying opinions

as wide a variance in experiences this year as there are diverse views as to the value of this annual observance to the florist in a broad way. One thing is sure—the project has not failed of wide publicity and whatever of weakness or objectionable characteristics may have been detected cannot be charged to lack of advertising. It is to be observed that while some of the trade deprecate the enhanced prices charged for some flowers on this occasion others are jubilant and look upon this feature as an achievement to be proud of. As far as our own individual observations go we are convinced that the frenzied jump from \$2.00 to \$10.00 and \$12.00 per hundred for white carnations at wholesale for one day's use and the proportionate increase at retail does more injury directly and indirectly to the florists' reputations than all the more or less extra business done and cash taken in can offset. What do you think?

Unjustly accused

Mr. Richter's communication presenting the "seedsman's side," which we copy this week from the Philadelphia Record, imparts to the critics and the public generally some straightforward and convincing information as to existing conditions in the seed market. We know of no line of business which has done so much, and kept at it so persistently as has the seedsman to educate the public in the proper handling and care of the seeds they buy and to guide the amateur soil tillers towards success in their gardening efforts. Yet there are vast numbers of those who seek to raise kitchen crops this year whose net results will just amount to the destruction of good seeds and little more except, perhaps, arraignment of the man from whom the seed was purchased, as a rogue. Unfortunately, the loss of seed through ignorance and inattention will not be all, the inclement weather and inhospitable condition of the ground in many localities adding greatly to the destruction. In fact, we are informed that on some of the Long Island estates where lawns have been plowed up and planted to potatoes, the potatoes have rotted and the ground is being plowed over for the second time. When this happens to the gardener who is supposed to know, where can we expect the novice to get on?

Successful Growing of *Cymbidium* *insigne* Sanderii

New *Campanula*, var. *Marion* Gehring



CYMBIDIUM INSIGNE SANDERII.

I recently paid a visit to the extensive greenhouses of Mr. J. T. Butterworth, of Framingham, Mass., and was perfectly amazed at the remarkable culture of this orchid species. Most people in this country consider that *Cymbidium insigne* Sanderii can't be grown with any success, especially commercially; but here I saw plants growing far superior to any which I have ever seen in Europe. Plants from imported bulbs the size of a walnut have now bulbs at least six to eight inches in circumference, and there seems to be no limit as to what they will do in the hands of the same cultivator. He has now had them for a number of years and each year shows marked improvement. Some were in bloom and showed spikes six feet in length, bearing from ten to fifteen flowers each, which stood erect without the aid of any stick to support them. The hybrids from this species also were growing just as freely, and Mr. Butterworth informed me that, as a commercial orchid, he considered it was one of the finest acquisitions of recent years. The accompanying illustration shows only a portion of the spike.

Walter Gott



CAMPANULA, VAR. MARION GEHRING

Our illustration shows a new perennial Canterbury Bell featured this year by F. H. Horsford, Charlotte, Vt. He describes it as from two to three feet high, one to many stems from a single plant. Lower leaves round, heart-shaped, strongly toothed, 4 to 6 inches wide, on petioles 4 to 7 inches long. It spreads from subterranean stolons and does not bear seed. A single plant will form a strong clump 2 feet or more in diameter, and the pale lavender flowers are produced in loose racemes in great profusion. The flowering season extends over a period of from four to six weeks, after which there is a more straggling succession of bloom until frost. This form originated in the garden of Dr. J. G. Gehring, of Bethel, Maine, and was found growing near a colony of *Campanula punctata*, near which one solitary specimen of *Campanula Medium* was in bloom. Since it produces no seed, and has some of the characteristics of both the above-mentioned species, Mr. Horsford thinks it reasonable to suppose it a natural hybrid between the two plants.

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Horticulture

Publicity among the kind of readers reached
by this paper is THE SORT OF PUBLI-
CITY THAT PAYS.

CLUBS AND SOCIETIES

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

There was an attendance of about one hundred at the meeting Tuesday evening, May 15th. Eric H. Wetters of Manchester, Mass., showed six magnificent specimens of Giant White streptocarpus, the finest strain ever seen in Horticultural Hall, for which he was awarded a reward of superior merit. Wm. H. Judd of the Arnold Arboretum showed a collection of pressed and mounted early flowering shrubs.

Communications from the Governor and Public Safety Committee regarding food conservation were read, which brought forth considerable discussion. The question as to the best kinds of fertilizers for use on potatoes was again brought up at this meeting. There was also a lengthy discussion on the effect of the winter on evergreens, and it was the unanimous opinion that the broad-leaved varieties came through better than last year, but the common arborvitae, white pines, spruces, retinosporas and many of the small-leaved evergreens were killed in great numbers.

A lecture on the new varieties of roses, chrysanthemums, hardy herbaceous perennials and vegetables was given by E. I. Farrington, illustrated with one hundred stereopticon views. The lecture was very instructive and was much enjoyed. The slides showed several of the newer roses, including Los Angeles, Purity, Aviator Blierot and Wichmoss. In addition, many of the recently introduced perennials as well as some of the annual novelties like the double morning glory and crested cosmos were shown and described. Among the new vegetables pictured were Dr. De Lue's Golden Giant corn, which has been developed from a cross of Golden Bantam and Howling Mob; the new asparagus Martha Washington, which is soon to be put on the market, and a new Greek squash. A new device for evaporating garden vegetables and fruits mentioned aroused considerable discussion and it was thought the drying and evaporating of fruits and vegetables might become very common this year owing to the lack of cans and fruit jars.

It was announced that the June meeting would be Ladies' Night, with a collation and dancing, for which there would be a charge of 50c. for admission.

LENOX HORTICULTURAL SOCIETY

The regular meeting of the Lenox Horticultural Society was held in the Town Hall, Lenox, Mass., May 9th. After the usual business had been disposed of the question of abandoning the holding of the exhibitions which had been previously arranged was the subject of much discussion. In consequence of the existing conditions and in order that the members may give more time and attention to the production of food crops, it was the unani-

Meetings Next Week

Monday, May 21.

Detroit Florists' Club, Bemb Floral Hall, Detroit, Mich.
Houston Florists' Club Chamber of Commerce Rooms, Houston, Tex.
New Jersey Floricultural Society, Orange, N. J.

Tuesday, May 22.

Newport Horticultural Society, Newport, R. I.
Tarrytown Horticultural Society, Tarrytown, N. Y.

Wednesday, May 23.

Oyster Bay Horticultural Society, Oyster Bay, N. Y.

Friday, May 25.

Connecticut Horticultural Society, County Bldg., Hartford, Conn.
Monmouth County Horticultural Society, Red Bank, N. J.
Pasadena Horticultural Society, Pasadena, Calif.

People's Park Cottage Gardeners' Association, Paterson, N. J.

Saturday, May 26.

Dobbs' Ferry Gardeners' Association, Dobbs' Ferry, N. Y.

mous vote of the members not to hold any exhibitions this year as previously arranged. The Society also decided not to meet again until September.

HENRY HEEREMANS, Secy.

SEWICKLEY HORTICULTURAL SOCIETY

The monthly meeting of the Sewickley Horticultural Society was held on Tuesday, May 8th. The schedule of the coming September show was adopted as presented by the committee.

The following motion was carried: "That we, the Sewickley Horticultural Society, view with hearty approval the efforts made by the Woman's Club of Sewickley, in the active work they have undertaken in connection with the cultivating of vacant lots in Sewickley and environs, and at the same time offer them our hearty co-operation in the undertaking if acceptable to that body."

M. Curran and William Thomson showed some fine specimens of herbaceous calesolaria and J. Barnett vases of persica in variety.

JOHN CAEMAN, Secy.

ST. LOUIS FLORIST CLUB.

The St. Louis Florist Club met at 11 Mile House and were received by the Growers' Club, many of whom are members of the Florist Club. There was a good crowd. Wm. C. Smith in speaking of the annual picnic to be held in July thought subscribers to the entertainment fund should receive so many tickets according to the amount of subscriptions, these tickets to be given to customers and friends. It was also proposed to get up a monster parade on the day of the picnic. This was favored by F. C. Weber, Jr., and others.

NEW YORK FLORISTS' CLUB

The attendance at the May meeting of the N. Y. Florists' Club last Monday evening was not far below one hundred. Dr. Henry Clay Lint gave an interesting talk on the topic of prepared humus as a substitute for stable manure which brought out a volley of questions from members who apparently were not quite prepared to agree that any humus proposition could take the place of the real old stuff. The lecturer was well versed in his subject and held his own valiantly and good naturedly. He said that of the 89 chemistry elements in the world there are but 10 that plants require. F. R. Pierson reported for the S. A. F. Convention ways and means committee that good progress has been already made and that "every man has got to do his bit" towards the \$10,000 fund which has been started. L. W. C. Tuthill, for the souvenir program also made an optimistic report and promised a production worthy of the name. R. J. Irwin of the sports committee stated that it had practically been decided to rent Thum's alleys, two floors, on Broadway, for the bowling contests. Other committee chairmen made progressive reports. S. Van Reyper of Dundee Lake was elected to membership and six applications were recorded for action at next meeting. Committees were appointed to prepare suitable resolutions on the death of P. L. Bogart and C. G. Weeber.

George T. Schunemann of Rockville Centre showed some excellent Spencer sweet peas; Alexander E. Hogg, pelargoniums; P. W. Popp, pansies; M. van Waveren & Son, Darwin tulips and narcissi. All the exhibits received high commendation and vote of thanks. The tulip collection, grown by H. Langelier, New Dorp, Staten Is'and, contained the following varieties: Calypso, Rising Sun, Enchantress, McKinley, Queen of the Whites, Van der Neer, Rose de Hollander, La Remarquable, Princess Wilhelmina, Cottage Boy, Blushing Bride, Cerise Grisdelin, Jenny, Jeannette, L'Esperance, President Cleveland, Princess Helena, Sir Thomas Lipton, Pride of New Dorp, Queen Emma, Luminosa and Feu Ardent (breeder). The narcissi were Firebrand, Tom Titt, White Lady, Katharine Sparrell, Blood Orange and double Argent.

NASSAU COUNTY HORTICULTURAL SOCIETY.

The regular monthly meeting of this society was held in Glen Cove, N. Y., May 9th. The Chairman of the Executive Committee reported all ready for the annual Tulip Show on Wednesday, May 23rd, in the Glen Cove Neighborhood House. An interesting schedule, comprising 27 classes of seasonable spring flowers, has been compiled which will be mailed to any

intending exhibitor upon request. Awards of the evening were as follows: Joe Marstroe 1st, for lettuce, Big Boston; Harry Goodband 1st, for vase of out-door flowers; special mention to John F. Johnson for salpiglossis.

The National Association of Gardeners' offer of a silver medal to be competed for by members only was accepted and is to be awarded to the most meritorious exhibit at the chrysanthemum show next November.

An essay by Edwin H. Costick, entitled "Distinctive American Plants," was read by Robert Jones, and a letter of thanks was ordered sent to the author. Prize exhibits for the next meeting, June 13th, are: 12 gladioli, 3 heads of cauliflower and a bunch of asparagus.

HARRY GOODBAND, Cor. Secy.

AMERICAN DAHLIA SOCIETY.

A meeting of the executive committee of this society was held at the Grand Hotel, 31st street and Broadway, New York City, on Thursday afternoon, May 10. President Richard Vincent, Jr., presided, and there were present Geo. L. Stillman, Geo. W. Kerr, Jas. Duthie, J. J. Lane and J. Harrison Dick, secretary.

The minutes of the March meeting were read and approved. Arising out of these it was proposed that a rule, making it essential that all flowers exhibited in the competitive classes at the society's exhibition must be grown by the exhibitor, said rule not to apply to non-competitive displays, be inserted in the rules of the schedule governing the next show. The statement of accounts was passed.

The New York Show was considered. This will be held in conjunction with the American Institute at the Engineering Building, Sept. 25 to 27. It was resolved that an appropriation be set aside for the use of the show committee for necessary expenses, show committee to comprise the president and secretary. It was agreed that seven silver and five bronze medals be struck for the needs of the society and its affiliated organizations, also that two silver and two bronze medals be offered as extra prizes to the New Haven (Conn.) Horticultural Society for its dahlia show on Sept. 19 and 20, in the name of the A. D. S.

The secretary was empowered to produce an eight page bulletin for publication in the middle of July. It was agreed that from June 1 all new subscriptions paid in would be credited to Sept., 1918.

An invitation from Prof. Hall to have the classification committee and interested members visit the dahlia trials at Geneva, N. Y., in September, was favorably considered. Discussion was taken on the desirability of publishing Prof. Hall's list of 6,400 dahlia names with classification and descriptions. An estimate for the printing of this as a 48 page pamphlet and cover, in seven point type, had been given, the figure being \$350 for 1,000 copies. It was the expressed opinion that as the society's funds did not warrant this expenditure, and as such a list would require to be periodically revised, its

Coming Exhibitions

Boston, Mass., June 1-15.—Massachusetts Horticultural Society Outdoor Exhibition.

Philadelphia, Pa., June.—Exhibit American Peony Society.

Rochester, N. Y., June 15.—Peony Show of the Rochester Florists' Association, at Convention Hall.

Hartford, Conn., June 18-20.—Rose Show, Elizabeth Park, by the American Rose Society.

Boston, Mass., June 23-24.—Rose, Peony and Strawberry Exhibit, Massachusetts Horticultural Society.

Newport, R. I., July 4.—Show of outdoor Roses by the American Rose Society.

Boston, Mass., July 7-8.—Annual Exhibit of the American Sweet Pea Society, under the auspices of the Mass. Horticultural Society.

Winnetka, Ill., July 12.—Exhibit Flowers and Vegetables.

Winnetka, Ill., Aug. 16.—Asters, Gladioli and Dahlias.

New York, August 23-26.—Eighth Annual Exhibition American Gladiolus Society, Museum Building, Botanical Gardens, Bronx Park.

Newport, R. I., Sept. 5-7.—Annual Fall Show, Newport Horticultural Society.

Syracuse, N. Y., Sept. 10-15.—New York State Fair.

San Francisco, Calif., Sept. 21-22.—Show of the California Dahlia Society.

publication was not justified by the society. Moreover, it had before it a proposition from Mr. Lane, representing the Doubleday Page Co., that there was a possibility of that company publishing a special dahlia color manual, an amplification of the June issue of the *New Country Life*, which will be largely devoted to dahlias, and Prof. Hall's list may possibly be included as part of such separate manual. It was resolved therefore that the society could not see its way to publish the list now.

This is the last committee meeting that will be held before the show.

AMERICAN ROSE SOCIETY.

June 1st has been set aside for the annual outdoor meeting of the American Rose Society in the National Rose Test Garden at Arlington Farms, Washington, D. C. Appropriate exercises have been arranged, including addresses from J. Horace McFarland, from one of the head members of the Department of Agriculture, from an appointee of the Citizens' Association, which are federated, and others. All in the trade are cordially invited to be present, as the Rose Garden, containing now between four and five hundred varieties, promises to be at its best.

ROBERT PYLE, Chairman,
Washington Rose Garden Committee.

The Schedule of Prizes for 1917 of the National Chrysanthemum Society of London, Eng., has been received. Besides the 1917 prize list, the pamphlet includes the list of floral committee awards and audits of the 1916 show.

CHICAGO FLORISTS' CLUB.

The regular meeting of the Chicago Florists' Club was held May 10th. The most important matter under consideration was the coal situation. A note from Maclellan, who has been ill for some time, asked that he be excused from the committee of which he was the chairman. This was done and E. Ollinger succeeded him. Mr. Gage, of the Chamber of Commerce was introduced by R. Schiller, who talked upon the coal question and offered many interesting facts, all bringing light upon the florists' vexed question of next season's coal supply, ending with suggestions that a committee be appointed to keep in touch with the Chamber of Commerce. R. Schiller was appointed chairman with instructions to select from other members.

After a discussion of the garden question Fred Lautenschlager was appointed chairman of the garden committee and \$10 was appropriated for seed to be distributed among florists who should be asked to plant the same and give the young plants to those persons who are working the vacant places in the city. A rising vote of thanks was given the speakers and also to the F. T. D. for their splendid service during the Mothers' Day rush.

Resolutions were adopted as follows:

BE IT RESOLVED, That the Chicago Florists' Club in the spirit of patriotism and civic duty does hereby heartily endorse and encourage the furthering of the work now being carried on under the name of the Garden Bureau of Chicago.

FURTHER, That this organization does hereby offer its assistance and co-operation by pledging itself and its members to raise plants for garden products of such kind and in such quantity as may be practicable, and to donate the same to the public to be distributed under the guidance and direction of the Committee, which shall be by this organization thereunto appointed.

This work will be in the hands of a committee of five:

F. LAUTENSCHLAGER, Chairman,
PETER REINBERG,
H. N. BRUNS,
PAUL KLINGSPORN,
GEORGE H. MOHN.

The plan of action is outlined as follows:

The growers who wish to help this movement should arrange at once to sow a few flats of vegetable seeds, such as lettuce, tomatoes, pepper plants, egg plants, beets, cabbages, and any other varieties of vegetable plants that are easily transplanted. When these plants are ready for replanting, notify F. Lautenschlager, 440 West Erie Street, Chicago, who will make arrangements to have these plants delivered to the Chief of the Garden Bureau of Chicago for distribution amongst the people who will plant community gardens. Every grower can help.

At the meeting of the Rhode Island Horticultural Society, held in the Providence Public Library, May 16, Phillip Wessels, of the Agricultural Experiment Station of the Rhode Island State College, lectured on "How to Fertilize the Home Garden."

ARBORETUM NOTES

Effects of the Winter.

The effects of the heavy rainfall of the past summer and of the hot dry autumn which thoroughly ripened the wood of trees and shrubs are now shown in the generally good condition of the Arboretum collections which promise abundant crops of flowers and fruit. A few flower-buds have been killed, and there are occasionally brown leaves on Rhododendrons and other broad-leaved evergreens, but not so many as usual at this season of the year. Exotic conifers, including the new Firs, Spruces and Pines from western China, are generally uninjured but the foliage of the native White Cedar (*Chamaecyparis thyoides*) is badly disfigured. For some reason not easy to explain this tree has never taken kindly to the Arboretum conditions, and suffers here more or less every winter. It is a late spring in eastern Massachusetts.

Winter-flowering Witch Hazels.

The flowers of these interesting plants have never been more beautiful and abundant than this year, although they appeared much later than usual. The flowers of *Hamamelis vernalis*, the species from southern Missouri, usually open late in December and in January, and those of the Japanese and Chinese species are usually fully open in January and February; but with the exception of a few precocious flowers on a branch of one of the plants of *H. vernalis* which opened late in December, none of these plants were in flower this year until the middle of March. In the size of the flowers and in the length and brilliancy of the bright-yellow petals *Hamamelis mollis*, a native of western China, is the handsomest of all the Witch Hazels. The pale green foliage of this shapely shrub is also attractive. It is very hardy and grows rapidly, and might well find a place in any garden or city plot in public view during the winter months. This Witch Hazel is one of the most valuable and interesting shrubs brought in recent years to the United States.

Prunus Davidiana.

This is the earliest of the Plum, Cherry, Peach and Apricot groups to flower this year. It is one of the wild Peaches of northern China, and is a small tree with lustrous red-brown bark, slender erect branches which form a narrow head, small flowers, nar-

row pointed leaves and small fruit of no edible value. The flowers are usually of the color of those of the common Peach-tree, and there is a form with pure white flowers. The two forms have been covered with flowers during the past week in the Peach and Apricot Group. As a flowering tree in this climate this Peach has little to recommend it for the flower-buds or the flowers are killed almost every year by late frosts, but just now pomologists in this country are interested in it as a possible stock on which to work the common Peach-tree, as it is hardy north of the region where the Peach thrives.

Early Rhododendrons.

Several plants of the Siberian and north China *Rhododendron dahuricum* have been in bloom during the past week. This shrub has been in European gardens for more than a century but is still little known in the United States. It has small dark green leaves which in this climate remain on the branches until late in the winter, and small bright rose-colored flowers. These are often destroyed by spring frosts, and this plant has never been so beautiful before in the Arboretum as it is this spring. There is a variety *sempervirens* with more persistent leaves and darker-colored flowers. This variety is not blooming this year. Usually *Rhododendron mucronulatum* is the earliest of the Rhododendrons to bloom in the Arboretum but this year it is a week later than *R. dahuricum*, and is only now opening its paler rose-colored flowers. This is a tall, perfectly hardy, deciduous-leaved shrub which has flowered freely every spring in the Arboretum for the last twenty years and is chiefly valuable for the earliness of the flowers which appear on the leafless branches and are rarely injured by spring frosts. In the Arboretum the leaves turn bright yellow before falling late in the autumn.

Early Magnolias.

The flower-buds of the Japanese *Magnolia stellata* have been nearly all killed in the Arboretum. This should not, however, discredit this beautiful shrub, for the plants here are in low ground and in a particularly trying position, and in other Massachusetts gardens plants of this Magnolia have not been injured and are now in full bloom. The flower-buds of the other early-flowering Japanese species, *Mag-*

nolia kobus and its variety *borealis*, have not been injured and are now just opening. As flowering plants they are the least desirable here of the Magnolias which bloom before the leaves appear, for the flowers are not large and only exceptionally are produced in large numbers.

Daphne Mezereum.

A plant of the white-flowered form of this small European shrub has been in bloom for the last two weeks. The purple and the white-flowered forms are useful garden plants because they are almost the first shrubs to open their flowers in this climate and because the flowers are not injured by spring frosts. This Daphne is interesting to us in this country because it is one of the few shrubs native of Europe which have become widely naturalized in some parts of North America, as in eastern Massachusetts and on the Canadian side of the Niagara River above the Falls.

The Cornelian Cherry.

Which is a Dogwood (*Cornus mas*), is one of the earliest trees or tree-like shrubs with conspicuous flowers to bloom in eastern Massachusetts. The flowers are light yellow and are borne in clusters in the axils of the unfolding leaves and, although individually small, are produced in such profusion that the branches are covered with them. The flowers are followed by bright red, lustrous, oblong fruits the size of small olives. The flower-buds and the flowers of this tree are not injured by cold. The habit of the plant is good; the foliage is dark green and abundant, and the fruit, although somewhat hidden by the leaves, is handsome. The Cornelian Cherry, which is a native of Europe and western Siberia, has been an inhabitant of gardens for more than three hundred years. In the United States it was probably more often planted in the first half of the last century than it is at present, although there are not many early-flowering trees hardy in this climate which are better worth a place in the garden. The largest specimen we know in eastern Massachusetts is in the Public Garden of Boston.

Early-flowering Native Shrubs.

Two yellow-flowered native shrubs are in flower and are well worth the attention of the makers of American gardens by whom they have been generally neglected. These are the Leatherwood, *Dirca palustris*, and the aromatic Spice Bush, *Benzoin aestivale*. Their leafless branches are now covered with small yellow flowers, and those of the Spice Bush will be followed in the autumn by scarlet lus-

trous fruits. The leaves of these plants turn yellow in the autumn before falling.

Erica carnea.

In the Shrub Collection this Heath and its white-flowered variety are already in bloom. It is a common European plant which grows not more than five or six inches high but spreads into broad mats, and is the only one of the true Heaths which is really hardy in this climate. It is an excellent plant for the edging of beds and for the spring rock garden.

Alnus hirsuta.

To persons who know Alders only as they grow naturally in New England these plants are small or large shrubs, but the common European Alder, *Alnus glutinosa*, is at its best a large tree; there are two large tree Alders in the Pacific states and another in Arizona and Mexico, and in Japan and eastern Siberia some of the species are trees. One of these, *Alnus hirsuta*, should be better known for it is perfectly hardy here and has grown more rapidly than any other Japanese trees raised from the seeds brought from Japan by Professor Sargent in 1892. In the Arboretum it is a shapely tree already more than thirty feet high, with smooth, lustrous pale gray bark and spreading branches, and large dark green leaves. In Japan it is often a tree sixty or seventy feet tall with a trunk two feet in diameter, and there appears to be no reason why it should not grow as large in this country. Of

all the tree Alders in the collection it has the most promise of long life and large size, and it should prove a good tree in the northern states to ornament the borders of streams and ponds. In Japan this tree furnishes wood used for many purposes.

The Cherries.

The Japanese Cherry-trees in the Arboretum promise a full bloom and will be in flower in about ten days when there will be an opportunity to see here some of the most beautiful of all spring-flowering trees.

—From *Arnold Arboretum Bulletin*, April 30, 1917.

FROST DAMAGES STRAW-BERRIES IN MISSOURI.

The Assistant Truck Crop Specialist of the Bureau of Crop Estimates, United States Department of Agriculture, reports that a frost on May 8 injured a large area of the strawberry section in southwestern Missouri. It is estimated that the Aroma variety were injured 80 per cent. and the Warfield 20 per cent., and that the probable condition of the crop in the damaged area is about 25 per cent.

The acreage of strawberries in Missouri was estimated by the Bureau of Crop Estimates on April 24, 1917, to be 6,950 acres, and, based on the condition of the crop on April 1, a crop of 535,200 24-quart crates was forecast. The condition of the crop on May 1 was reported to be 73 per cent.

LEON M. ESTABROOK,
Chief of Bureau.

PROPOSED NEW QUARANTINE AGAINST GIPSY MOTH.

An extension of the area in the New England states under quarantine against the gipsy moth and brown-tail moth is being considered by the U. S. Department of Agriculture, and a public hearing on this question will be held in Washington at 10 A. M., May 18, 1917, in Room 410, 1358 B St., S. W. It is proposed to quarantine the following towns in addition to the territory covered by existing quarantines. New Hampshire: Chatham, Bartlett, Waterville, Woodstock. Vermont: Hartford.

The result of this quarantine will be to restrict the interstate shipment from the quarantined area of nursery stock, coniferous trees, forest plant products, and stone or quarry products, or any other article of any character whatsoever capable of carrying gipsy moth or brown-tail moth infestation, except in accordance with regulations prescribed by the Secretary of Agriculture.

Lowell, Mass.—The New England Nurseries have been awarded the contract to furnish several hundred shrubs and trees to the park department for use at Shedd park. The bid of this concern was \$417.17. Other bidders and their bids were: Bay State Nurseries, \$500; Thomas B. Meehan Co., \$455.11; Breck, Robinson Co., \$446.56; William H. Moon & Co., \$743.43; Robin Hill Nursery, \$601.33, and F. W. Kelsey Nursery Co., \$479.14.

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Obituary

Tortus Graffstrom.

After a sickness of but three days with pneumonia, "Tot" Graffstrom, a well-known gardener of Hartford, Conn., died on Wednesday, May 2, while being carried to the hospital.

Dr. Loyld

We regret to announce the death of Dr. Loyld of the Shackelford Nursery Co., St. Louis, after a short illness. Dr. Loyld was a grower of out door bulbous stock and other flowers for the St. Louis market.

Jean Stafford.

Jean, the five-year-old and only daughter of Mr. and Mrs. M. F. Stafford, Pittsburgh, Pa., died on Tuesday of last week, of heart failure, superinduced by an attack of diphtheria, last March, from which she had seemingly recovered.

Mrs. F. F. Benthley.

F. F. Benthley, 2323 Cullom Avenue, Chicago, connected with the wholesale flower market for many years, has the sincere sympathy of the trade in the loss of his wife. Mrs. Benthley passed away May 9th as the result of a recent operation. Besides her husband she leaves several sons and daughters.

William McRae Thompson.

W. McR. Thompson died at the University Hospital, Philadelphia, Thursday, May 10th. He was an employee of the Pennock-Meehan Co. for many years and previous to that was in the retail florist business on his own account at 13th and Walnut streets. He had been a sufferer from spinal trouble for a number of years but remained on duty up to within a week of his death. He was a faithful, upright, honest man in all his relations and was held in the highest respect by all who knew him.

Charles G. Weeber.

Charles G. Weeber, formerly a partner with the late A. L. Don in the seed firm of Weeber & Don on Chambers street, New York City, died suddenly at his home in Brooklyn, N. Y., early on the morning of May 8, heart failure being the cause. Mr. Weeber was for nearly forty years actively engaged in the seed business, he having entered the employ of Fleming & Davidson in 1863, being later on in the employ of Henderson & Fleming, Thorburn & Carson and A. D. Cowan & Co. and in 1890 he became associated with A. L. Don, who was also in the employ of A. D. Cowan Co., as successors to that firm. In 1901 Mr. Weeber retired from business life.

Charlie Weeber, as he was familiarly known was not only a good business man but genial and companionable in disposition and had the universal love and respect of the trade. His age was 74 years.

FLORICULTURE AT IOWA STATE COLLEGE.

The work in the Department of Horticulture at the Iowa State College has been materially strengthened by the development of a major course of study in floriculture. Several new courses have been added, through which a student gets a well-founded knowledge of floriculture as a profession, both in theory and practice. During the first two years the students are required to take work in the fundamental and allied sciences, including chemistry, physics, botany, soils, fertilizers and entomology. After two years of basic work the students devote the remaining two years to work in floriculture, taking such other work as will supplement the specific courses in floriculture.

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Course 7 in floriculture practice is given in the sophomore year and offers an opportunity for the students to find out by practical experience what floriculture is and whether or not they are adapted for this kind of work; it prevents misfits. In addition to these practice courses, which are of an apprentice nature, the students are required to have 6 months' practical experience in the commercial field before being allowed to graduate.

QUARANTINE ON PINES AND BLACK CURRANTS.

The Secretary of Agriculture has amended the white pine blister rust quarantine promulgated April 21, 1917. This amendment is made effective May 1, 1917, and prohibits the movement of white pines and black currant plants from the New England States to points outside of New England. This action was necessitated by the considerable movement now under way of possibly infected white pines, and to a less extent, black currants, from New England to states lying west and south. Both of these plants are important carriers of the blister rust disease, and

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most of the states to which these shipments were being made have State quarantines prohibiting the entry of such stock.

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THE NURSERY TRADE AND THE WAR.

Lloyd C. Stark, vice-president of the American Association of Nurserymen, has been in correspondence with Secretary Houston with reference to the American Association of Nurserymen rendering assistance to the government in the war emergency. Secretary Houston in reply urges that the pressing need at the present time is to insure a substantial increase in the production of staple non-perishable crops during the present season. He says that it has been suggested that many of the nurserymen operate large acreages of land on which certain crop rotations are used between the crops of nursery stock which are grown on them. To the extent that corn or other staple crops can be planted this year, in particular, on such land in the crop rotation which has for its ultimate aim the preparation of the land for a new crop of trees, it will help in the food situation.

"Those who are growing wheat, corn, cotton, and other staple crops as their main farm enterprise may not be able to increase their usual acreage of these crops to any great extent so that much of the needed increase in the production of these crops will doubtless be realized by the smaller growers devoting more land to them, and by farmers and others who are operating land, putting in substantial acreages of them where they have not heretofore grown these crops. In this latter connection the members of the American Association of Nurserymen can doubtless aid. Even if they grow no more than enough corn, for instance, to supply their own needs where in previous years they have purchased the corn

and other grain they have fed their horses, it will amount to considerable in the aggregate and to that extent relieve the draft on the general supply."

Regarding the present conditions in the nursery trade Mr. Lloyd writes to HORTICULTURE as follows:

"I don't know how the conditions in the East have been this year, but our large orchard plantings through the Central-West were better this season than for a number of years. Ornamental business also good, but we don't know how the war will affect that. The catalog business will probably be hit some. The agency or salesman's business will suffer perhaps where the salesmen or agents cannot be found in sufficient quantities, but where salesmen are working believe they will be able to do a good business.

The labor situation, of course, is one of the nurserymen's big problems. The freight situation is also another problem, however, these like all other problems will be solved somehow.

I note a tendency towards pessimism in some quarters. This to my mind is all dead wrong. Now is the time to be conservative, of course, but pessimism won't help and it will hurt a lot. There are, on the contrary, many causes for optimism in nursery circles.

First and foremost the farmer who buys most of the nursery products is a favored son as never before; both the government and the banks are backing him up and the government will undoubtedly supply him with labor. On the other hand, the man who plants ornamentals in a large way, in many cases has more money than ever before, and he will probably continue to buy. The first year will probably be worse than the succeeding ones if Canada furnishes us a fair example. In the meantime, we nurserymen must do what we can to line up the agricultural colleges, the agricultural publications, the Department of Agriculture, etc., and get them to urge production and conservation of fruit food products and incidentally this will help the planting if orchards."

Visitors' Register

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Pittsburgh—E. J. Fancourt and H. S. Price, repr. Pennock-Meehan Co., Phila.

Rochester, N. Y.—R. Blackshaw of Randall Co., Chicago; L. D. McNeff of St. Paul, Minn.

New York—L. J. Reuter, Westerly, R. I.; W. R. Pierson, Cromwell, Conn.; A. M. Campbell, Philadelphia.

Philadelphia — Charles L. Schmidt, Harrisburg, Pa.; C. B. Knickman, repr. McHutchison & Co., N. Y. City; Alexander Forbes, J. F. Noll Co., Newark, N. J.

Cincinnati—Mrs. G. W. Firsch, Dayton, Ohio; Fred Rupp, Laurenceberg, Ind.; Jos. Hill, Richmond, Ind.; E. B. Current, Lexington, Ky.; Karl Heiser, Hamilton, Ohio; Julius Dilloff, New York; I. Bayersdorfer, repr. H. Bayersdorfer & Co., Phila.

Chicago—Otto Ackerman, Columbus, O.; Ed. Gullett, Lincoln, Ill.; David Geddis, St. Louis, Mo.; A. B. Barber, Cleveland, O.; V. Jensen, Lincoln, Ill.; J. S. Wilson, Des Moines, Ia.; Wm. Swinbank, Sycamore, Ill.; P. Halbrooke, Newark, O.; H. E. Atlas, Atlas Floral Co., Detroit, Mich.

NIEREMBERGIAS.

A favorite of our childhood widely used in those long bygone days in vases and garden and cemetery borders the nierembergias after many years of obscurity are coming back once more to their own. Mixed with the common, old fashioned petunia, which is also worthy of being resurrected, and needing no special advantage except plenty of sun the nierembergias can be depended upon to "make good" wherever given a chance in the summer window box or lawn vase.

Memorial Day

There is every reason to expect an unprecedented call this year for flowers for this time-honored occasion, sacred to the memory of the patriots of over half a century ago. Whatever you have to offer in flowers, bedding plants, greens and special supplies for that date

CAN BE WELL SOLD

through an advertisement in this paper which has its largest circulation among the trade of that section of the country *where Memorial Day has its most general and earnest observance.*

YOU'LL NEED ALL THE BUSINESS YOU CAN GET THIS YEAR, SO TAKE ADVANTAGE OF THE OPPORTUNITY.

➡ SEND COPY FOR ISSUE OF MAY 26th ➡



WEED KILLER

THE VERY NEWEST AND QUICKEST METHOD OF DESTROYING WEEDS, GRASS AND OTHER GROWTH IN GARDEN WALKS, GUTTERS, TENNIS COURTS, DRIVEWAYS, ETC.

This fluid absolutely destroys all weeds and other growth wherever applied, and its effect on the ground prevents the growth of fresh ones for a year and thus saves a great deal of time and labor, as no cutting, hoeing or hauling away of the weeds is required.

We manufacture the strongest line of DISINFECTANTS on the market.

CORRESPONDENCE SOLICITED

P.-L. CHEMICAL CO., 507-509 W. 19th St., New York

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Medfield, Mass.—Peter Piderzina, one house.

Oakland, Cal.—Kinmura Bros., B St., two houses.

Sac City, Ia.—Sac City Greenhouses, house 36 x 50.

Central City, Neb.—George Hall, one house in the fall.

Petersburg, Va.—William S. Young, Walnut Hill, five houses.

Nevada, Mo.—Edward Campbell, house 25 x 125, completed.

Columbus, O.—Fairview Greenhouse Co., River Road, range of houses.

Grand Rapids, Mich.—Grand Rapids

Greenhouse Co., two houses each 26 x 240.

Spokane, Wash.—H. L. Olsson, two houses each 30 x 200; service shed 30 x 80.

Fond du Lac, Wis.—Andrew J. Brown, Fourth Street Greenhouses, one house.

Portland, Ore.—Holden Floral Co., two houses; Wilson, Crout & Gehr Co., three houses; H. Cobb, conservatory.

The Philadelphia office of the King Construction Company reports the following contracts recently closed:

Wm. M. Elkins, Elkins Park, Pa. Curved eave house 18' x 50', with connecting passageway 11' x 16' to service building.

L. G. Graff, Paoli, Pa.—Sun parlor 13' x 26', curved eaves. Polished plate glass on sides and ends and in vestibule.

Mrs. J. W. Black, Kingston, N. C.—Curved eave house 18' x 50'.

Henry I. Faust, Merion, Pa.—House 42' x 200', complete materials.

Lawns Cemetery Company, Woodstown, N. J.—house 25' x 100' and one house 25' x 75', complete materials including King Ideal Square Sectional Boiler.

D. G. Grillbortzer, Alexandria, Va.—Materials for four houses, 32' x 150'.

Everett D. Webster, Brandywine Summit, Pa.—House 35' x 125', complete materials.

Edward H. Roberts, Chester, Pa.—House 20' x 40', complete materials.

J. C. Buck, Devon, Pa.—Curved eave house, 18' x 25'.

The following contracts were recently closed by T. J. Nelan for the King Construction Company:

Poinsard Brothers, Dunmore, Pa.—House 21' x 85'.

Charles Angerstadt, Reading, Pa.—House 14' x 40'.

Isaac Brockhill, Soudersburgh, Pa.—House 25' x 75'.

J. D. Joyce, Pottsville, Pa.—House 21' x 100'.

George Seidel, Hazelton, Pa.—House 14' x 75'.

Susquehanna Floral Company, Binghamton, N. Y.—Three houses 25' x 100' each.

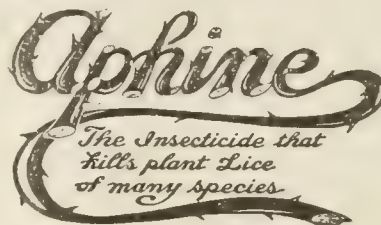
John F. Horn & Brother, Allentown, Pa.—House 14' x 125'.

John Stauffer, Lancaster, Pa.—House 21' x 50'.

Bruce Klinger, Milton, Pa.—Three houses 25' x 100' each.

Elmer Weaver, Ronko, Pa.—House 62' x 124'.

Ezra Miller, Ronko, Pa.—House 28' x 125'.



The Recognized Standard Insecticide.

A spray remedy for green, black, white fly, thrips and soft scale.

Quart, \$1.00; Gallon, \$2.50.

FUNCINE

For mildew, rust and other blights affecting flowers, fruits and vegetables.

Quart, \$1.00; Gallon, \$3.50.

VERMINE

For eel worms, angle worms and other worms working in the soil.

Quart, \$1.00; Gallon, \$3.00.

SOLD BY DEALERS.

Aphine Manufacturing Co.
MADISON, N. J.



Save your plants and trees. Test the thing for greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrips, Red Spider, Black and Green Fly, Mites, Ants, etc., without injury to plants and without odor. Used according to direction, our standard insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pets. Excellent as a wash for dogs and other animals. Relieves mange. Dilute with water 30 to 50 parts.

½ Pint, 25c.; Pint, 40c.; Quart, 75c.;

½ Gallon, \$1.25; Gallon, \$2; 5 Gallon Can, \$9; 10 Gallon Can, \$17.50.

Directions on package.

LEMON OIL COMPANY

Dept. S. 420 W. Lexington St., Baltimore, Md.



Pulverized or Shredded
Cattle Manure

Pulverized

Sheep Manure

The Florists' standard of uniform high quality for over ten years. Specify: **WIZARD BRAND** in your Supply House order, or write us direct for prices and freight rates.
THE PULVERIZED MANURE CO.
24 Union Stock Yard, Chicago



IMP.
SOAP SPRAY

Quarts, 55c. Gallons, \$1.65
Fives, \$6.50

Try with 24 parts water. Often effective weaker.

Ask your dealer or write

EASTERN CHEMICAL CO.
BOSTON, MASS.



NIKOTEEN

For Spraying

APHIS PUNK

For Fumigating

Ask Your Dealer For It.

NICOTINE MFG. CO.
ST. LOUIS

When writing to advertisers kindly mention **HORTICULTURE**.

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Kirby B. White, Detroit, Mich.; First Vice-President, F. W. Boigiano, Washington, D. C.; Second Vice-President, L. L. Olds, Madison, Wis.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.—Convention at Detroit, June 19, 1917.

The Seedman's Side.

That the seedmen get blamed for the high prices is to be expected. But once in a while the worm will turn—as witness this protest by Michell's manager, to a Philadelphia daily.

Editor of The Record:

I was very much amused to read an article by L. K. Passmore in your issue of May 4. This is another case of a man writing about something of which he knows nothing. I might just as well start an argument about the discount rates of a bank (and I believe that this man is the president of a bank). You, as well as I, know that when there is little demand for money the rates of interest hover around 3 per cent., but when there is big demand for it they jump up to 6 per cent. This is exactly the case in the price of seeds, except that the high prices of the latter are justifiable.

In other words, there are not sufficient seeds today to supply the demand, and in many cases, such as our own, seedsmen have exhausted the supplies of their original contracts placed with growers and are obliged to call upon the growers for more goods, who in many instances supply the present demand, but no doubt sacrifice their planting stock to do so; and I want to tell you that the country, despite all the planting that is being done, will face far more of a shortage of seeds for 1918 planting than it does today. This is brought about by the fact that a great deal of the planting has not been intelligently administered. I feel safe in saying that 80 per cent. of the gardens planted by amateurs will fail, because of lack of knowledge on the part of the planter, despite all we seedsmen are doing to educate them in the art of gardening, as this is a thing that cannot be brought about in a few months. We have distributed, this season, in the neighborhood of 100,000 cultural leaflets and guides, which will help a lot, but I know there are some people who are digging up their back yards, which have an inch of soil in them and a foot of cinders, and planting in that. This procedure is simply a means of waste, and they cannot harvest anything. They might as well take up a block of cement in their cellars and do their planting there. In other words, some people don't know whether a tomato grows under the ground or on a bean pole.

This Mr. Passmore also speaks of onion sets being 75 cents a quart. Let me tell you that we paid for these (and had to beg for them at that) \$13 a bushel. Now, when we measure these onions out to be sold at retail, pack them in quart boxes, label them, wrap them and, in most cases, deliver them, do you think that the difference between the cost price and the selling price leaves much of a net profit?

I honestly don't believe that there is a seedsmen in business who has taken unfair advantage of his trade; in fact, there have been many cases where some of us should have restricted the quantity of seeds we

PIN MONEY MUSHROOM SPAWN

8 lb. for \$1.00

Directions Included

WM. ELLIOTT & SONS
42 Vesey St., New York

Lily Bulbs—Cold Storage

GIGANTEUM

		Per 100	Per Case	Per 1000
6/8	(400 to case)	\$4.00	\$14.00	\$35.00
7/9	(300 to case)	5.50	14.40	48.00
8/10	(225 to case)	7.50	14.75	65.00
3/10	(200 to case)	9.00	16.50	82.50

FORMOSUM

		Per 100	Per Case	Per 1000
7/9	(250 to case)	\$5.50	\$11.50	\$45.50
9/10	(200 to case)	8.00	14.50	72.00
11/13	(100 to case)	12.00	11.75	117.50

MELPOMENE MAGNIFICUM

		Per 100	Per Case	Per 1000
8/9	(200 to case)	\$6.50	\$12.00	\$60.00
9/11	(125 to case)	11.00	13.25	105.00
11/13	(100 to case)	15.00	14.50	145.00
13/15	(60 to case)	20.00	12.00	190.00

Arthur C. Boddington Co., Inc., 128 Chambers St., New York City

"Seeds with a Lineage" All Varieties
Thoroughly tested at our trial grounds, Raynes
Park, London, England. Send for Catalogue

CARTERS TESTED SEEDS, Inc., 166 Chamber of
Commerce Bldg., Boston, Mass.

sold, in order to conserve the supply.

PAUL F. RICHTER.

Philadelphia, May 8, 1917.

There is food for thought in the idea that once sold out, the seedman had better stay sold out, rather than take the curses of the know-nothing mob. There is little money in it, and for all the profit better let the other fellow swallow the pill!

Seed Committee Named.

A committee on seed stocks has been appointed by the Secretary of Agriculture to secure full information in regard to the available supplies of seed for staple food crops and to devise methods of meeting shortages in particular regions.

The committee consists of the following members:

R. A. Oakley, chairman, agronomist, forage crop investigations, Bureau of Plant Industry.

L. M. Estabrook, chief, Bureau of Crop Estimates.

William A. Wheeler, specialist in marketing seeds, Office of Markets and Rural Organization.

John E. W. Tracy, assistant superintendent of testing gardens, Bureau of Plant Industry.

William Stuart, horticulturist, Bureau of Plant Industry.

C. P. Hartley, physiologist in charge of corn investigations, Bureau of Plant Industry.

A. J. Pieters, agronomist, forage crop investigations, Bureau of Plant Industry.

C. W. Warburton, agronomist, cereal investigations, Bureau of Plant Industry.

Washington, D. C.—No seeds for free distribution nor for sale is at the disposal of the United States Department of Agriculture. The Department, however, through its committee on seed stocks is receiving daily telegraphic

and other reports as to available supplies of seeds of crops for late planting and will assist in locating seed stocks for localities where shortages exist. The committee is co-operating with state, local and commercial agencies in an effort to secure better distribution of seed and to encourage plantings of important crops.

Information regarding shortages and surplus stocks should be addressed to R. A. Oakley, chairman, Committee on Seed Stocks, U. S. Department of Agriculture, Washington, D. C.

MICHELL'S PRIMULA SEED

PRIMULA CHINENSIS

(Chinese Primrose)

	1/2 tr. pkt.	tr. pkt.
Michell's Prize Mixture. An even blending of all colors.	\$0.60	\$1.00
Alba Magnifica. White.	.60	1.00
Chiswick Red. Bright red.	.60	1.00
Duchess. White, with zone of rosy carmine, yellow eye.	.60	1.00
Holborn Blue	.60	1.00
Kermesina Splendens. Crimson	.60	1.00
Rosy Morn. Pink.	.60	1.00

PRIMULA OBCONICA GIGANTEA

A great improvement over the old type, flowers much larger.	tr. pkt.
Lilacina. Pale lilac.	\$.50
Kermesina. Deep crimson.	.50
Rosea. Pink	.50
Alba. White	.50

PRIMULA MALACOIDES

Lilac. Trade packet.	\$.50
Alba. White	.50
Rosea. Light rose to carmine rose.	.50

Also all other Seasonable Seeds, Bulbs, Plants and Supplies.

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KELWAY & SON SPECIALIZE IN SEEDS

(personally selected strains)

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LET US QUOTE YOU PRICES

"A B C BRAND"

Lilium Giganteum Rubrum
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**Careful Seed Growers For
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Send for Our 1917 Wholesale Prices
To Florists and Market Gardeners

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ASPARAGUS PLUMOSUS NANUS SEED,
greenhouse grown, \$3.50 per 1000, \$15.00 per
5000, \$27.50 per 10,000; Lath-house grown
Seed, \$2.00 per 1000, \$9.00 per 5000, \$17.50
per 10,000. Asparagus Sprengeri Seed, 75c.
per 1000, \$3.00 per 5000.

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My **WINTER-ORCHID-FLOWERING**
SWEET PEA SEED have again received
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growers are more than satisfied. If
you are not already our customer, send
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new price list in May or June. It will contain
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CERTIFIED PUBLIC ACCOUNTANT

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CYCLAMEN



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Strong plants in 2 1/4
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in April.

\$10.00 per 100

R. & J. FARQUHAR & CO., Boston, Mass.

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LEONARD SEED COMPANY, Chicago, Ill.

LILIUM GIGANTEUM

NEW CROP NOW READY.

	Per 100	Per 1000
7 to 9 in. (300 bulbs to case)...	\$5.50	\$50.00
8 to 9 in. (250 bulbs to case)...	7.00	65.00
8 to 10 in. (225 bulbs to case)...	9.00	80.00
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A. HENDERSON & CO.

211 N. State St., Chicago.

Burpee's Seeds PHILADELPHIA

**BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
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LILIUM FORMOSUM

8/11, 225 to a case.....	\$80.00 per 1000
9/10, 200 to a case.....	85.00 per 1000
11/13, 100 to a case.....	15.00 per case
LILIUM FORMOSUM—Black Stem	
8/10, 200 to a case.....	\$80.00 per 1000
9/10, 180 to a case.....	90.00 per 1000
11/13, 100 to a case.....	16.00 per case

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New crop flower and vegetable seeds.
Begonia and Gladiolus Bulbs. 1917
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166 W. 23rd St., NEW YORK

GARDEN SEED

BET, CARROT, PARSNIP, RADISH and
GARDEN PEA SEED in variety; also other
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as well as a full line of Garden Seeds, will
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S. D. WOODRUFF & SONS

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Of Interest to Retail Florists

ABOUT PRICE FLUCTUATIONS

Editor of HORTICULTURE:

I believe something should be done to prevent flowers being slaughtered at glut times. The grower would be better off by getting a fair price for what is sold and let the remainder be lost. We jump "from the sublime to the ridiculous;" carnations, 25c. a dozen and then \$1.50 and \$2.00 a dozen for Mothers' Day. What do we want to do? Kill Mothers' Day as we did McKinley Day? They certainly are not worth it. It is foolish to compare flowers with food stuffs. The latter is a necessity; the former is not. If during glut the sales are a loser then let us quit it. Adjust the market prices and put carnations in winter no higher than four cents; in summer two cents. Then our dry goods stores would have to quit the flower business and let the florist do his to the best of his ability. Cheap prices that last only a period are an injustice to the legitimate florist. These buyers at glut prices do not buy regular and never buy flowers at market figures.

C. W. WORS.

St. Louis.

NEW FLOWER STORES.

New York, N. Y.—Joseph Levy, Fulton street, adjoining Orpheum Theatre.

Chicago, Ill.—Walter Adams, removing to North State and Division streets.

Detroit, Mich.—Miss M. Dunke, East Grand River avenue, near Broadway.

Dryden, N. Y.—Misses Lormor & Pratt, succeeding James E. Lormor.

Chicago, Ill.—Briggs Floral Co., Madison street and Fifth avenue.

Portland, Ore.—E. C. Monnich, Second and Morrison streets.

Newport, R. I.—Ebenezer W. Forrest, 94 Broadway.

Elizabeth, N. J.—George Gill, 1168 E. Jersey street.

Tarentum, Pa.—Arthur Godfrey.

NEW CORPORATIONS.

Long Island City, N. Y.—Astoria Fernery, ferns, plants, flowers, \$2,000; Em. M. Steindler, Charles A. Houston, I. H. Eisenberg.

Mobile, Ala.—Abbot Nursery Co.; capital stock, \$4,000; incorporators, C. H. Krause, E. J. Krause and J. L. Lloyd.

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Wichita, Kan.—Menges Greenhouse Products Co.; capital stock, \$1,000.

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Boston—Zinn The Florist, 4 Park St.
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Buffalo, N. Y.—Palmer's, 304 Main St.
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Cleveland, O.—Adam Graham & Sons, 5523 Euclid Ave.
Cleveland, O.—Knoble Bros., 1836 W. 25th St.
Cleveland, O.—The Smith & Fettes Co., 735 Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Ave.
Houston, Tex.—Kerr, The Florist.
Kansas City, Mo.—Samuel Murray, 1017 Grand Ave.
Los Angeles, Calif.—Howard & Smith, 853 So. Olive St.
New London, Conn.—Reuter's.
New York—J. H. Small & Sons, 505 Madison Ave., at 52d St.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 611 5th Ave.
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New York—A. T. Bunyard, 413 Madison Ave., at 48th St.
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New York—Max Schling, 22 W. 59th St.
New York—G. E. M. Stump, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.
St. Louis, Mo.—F. H. Weber's, N. E. corner of Taylor and Olive Sts.
St. Paul, Minn.—Holm & Olson, Inc.
Tarrytown-on-Hudson, N. Y.—F. R. Pleson Co.
Toronto, Can.—J. H. Dunlop, 8-10 West Adelaide St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—George H. Cooke, Connecticut Ave. and L St.
Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop, 22 Pearl St.

Send Telegraph, Telephone or Mail orders
for florist service in this vicinity to

Howard & Smith
853 SO. OLIVE ST.
Los Angeles, Calif.
Every Order sure to receive
prompt and careful attention.

ZINN The Florist
For Quality and Promptness
4 PARK ST. - - BOSTON

REUTER'S Members Florists' Telegraph Delivery

STORES IN
New London and Norwich, Conn.
and Westerly, R. I.

We cover the territory between
New Haven and Providence
ST. LOUIS, MO.

FRED C. WEBER
4326-28 Olive St.

Member Florists' Telegraph Delivery Association
NOTICE INITIALS. We have one store only

THE J. M. GASSER COMPANY,
CLEVELAND

Euclid Avenue
The Far-Famed Flowers of
TORONTO

Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP
8-10 West Adelaide St. - TORONTO, ONT.
ALBANY, N. Y.

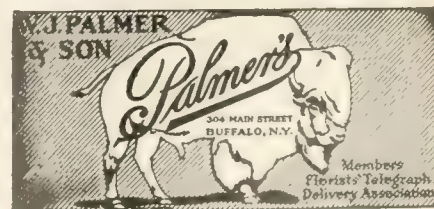
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Flowers or Design Work
DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER
106 STATE STREET, ALBANY, N. Y.

"THE HOME OF FLOWERS"
The largest cut flower store in America.
Orders for the TWIN CITIES and for all
Northwestern points given prompt at-
tention

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

The Park Floral Co.
J. A. VALENTINE, Pres.

Members Florists' Telegraph Delivery.
DENVER, COLORADO



KERR ORDERS FOR TEXAS
HOUSTON, TEXAS
The Florist Member F. T. D. Association

NEWS ITEMS FROM EVERYWHERE

NEW YORK.

Philip F. Kessler has been elected a director of the Cut Flower Exchange.

George W. Strange is just starting out on a trip for Stumpp & Walter Co.

A. M. Henshaw has turned over the management of the Henshaw Floral Company to his employees and "joined the colors."

Charles Millang has a field of Darwin tulips, Pride of Harlem, Clara Butt and Gretchen, which give promise of being just right for Memorial Day flower orders.

Considerable excitement was caused in 28th street last Monday morning by the descent of a truck loaded with flowers from a Winfield florist for Phil Kessler, into the subway excavation at the corner of Seventh Ave. Luckily the driver escaped unharmed.

Leonard Barron is justifiably proud of the fact that E. H. Wilson's smooth seeded peach, *Jrunus Mira*, from China has flowered in his garden for the first time in the United States. The flowers are white, one and one-eighth inches in diameter and with the fragrance of honey.

There was no evidence on the thoroughfares or street cars in New York, Brooklyn or nearby New Jersey places last Sunday that "Mothers' Day" was being outwardly observed. Five gentlemen wearing white carnations, one with a pink carnation, one lady with a pink carnation and one wearing scarlet geraniums was the sum total of corsage or lapel adornments observed during the entire day. Some florists said there was considerable demand for small boxes of cut flowers, while others had noticed no special call whatever.

Herman Weiss has got nicely settled in his new place at 130 West 28th street. Mr. Weiss was born into the flower business at Mt. Vernon, N. Y., where his father, Charles Weiss, has conducted a prosperous greenhouse establishment for many years and where the young man got his training until he joined the 28th street wholesale community eight years ago. During that time he has been on the progressive list and the opening of the spacious and up-to-date outfit at 130 is the culmination of a persistent and well-directed industry. The fixtures, ice chest and general furnishings of the new place are strictly "up to the minute."

PITTSBURGH.

Frank Steinald has been engaged as accountant for G. P. Weaklen & Co.

Miss Sophia Duglass has assumed charge of the bookkeeping department of the Ludwig Floral Co.

Next Thursday, May 24th, which was appointed as Good Roads Day by Governor Brumbaugh last February, will instead be celebrated as Farm and Garden Day.

CHICAGO.

J. E. Pollworth, of Kennicott Bros. Co., is taking another business trip through the South, this time with Houston, Tex., as the objective point, but making stops along the way. When he returns we shall undoubtedly hear more of the peony outlook.

A. L. Vaughan states that his trade on Mothers' Day was double that of any previous one and that in his opinion this day is destined to become one of the big holidays for the florists. He noticed a welcome change in the old custom of placing the exclusive carnation order.

Wm. K. Palmer, a graduate of the horticultural department of the University of Illinois, who is well known in Chicago retail circles and who has been for some time with the Fleischman Floral Co., has been accepted at the officers' training camp at Fort Sheridan, and is awaiting his call.

The garden movement has been a boon to the growers of vegetable plants, some of the largest growers being completely sold out of what they had planned for the entire season. A new supply is under way and instead of the usual limited time for doing a season's selling, this year trade promises to occupy two or three times the usual number of weeks. "It's an ill wind that does not blow somebody good."

It is safe to conclude that a great amount of seed has been wasted by the would-be gardeners, in the vacant lots and back-door yards. For several weeks the campaign of "doing your bit" by planting has been in full swing and the temperature still near the overcoat zone. Forsythias have struggled into bloom along with early tulips and these with the faint showing of coming leaves on the trees and the green grass are all the indications, so far, of nature's awakening.

ROCHESTER, N. Y.

S. J. Koester, of Lord & Burnham Co., has returned to Pittsburg, Pa.

F. B. Bohnke reports business last week far ahead of last year. Rochester Floral Co. had a telegraph window, which brought good results. J. B. Keller Sons had an attractive window of orchid blossoms and fancy baskets and boxes of pansies to which trellises were attached. Edwin C. Kaelber, Inc., had the decoration for the opening of the new Dental Dispensary, the building being the gift of Geo. Eastman.

Kansas City.—Samuel Murray reports an increase of over 80 per cent. Mothers' Day business as compared with last year. In this the F. T. D. was a big factor and parcel-post business also contributed largely. The orders individually were small, however, but the volume large. Besides carnations there was an extra good demand for other flowers, also for plants such as hydrangeas, gloxinias, caladiums, etc.

BOSTON.

Tuesday night, May 15th, was very cold in this section. Two degrees of frost and half an inch of ice on small pools is reported from Lexington with considerable damage to field crops.

The proceeds on the opening day, June 1, of the open-air flower show of the Massachusetts Horticultural Society, on the land opposite the Museum of Fine Arts, will be devoted to the needs of the Boston-Metropolitan Chapter, American Red Cross, whose officials will be in charge of the show on that occasion. To get the greatest possible returns from the generous offer of the managers of the exhibition, the Red Cross officials have placed the price of admission tickets at \$5.

NEWS NOTES.

Albany, N. Y.—Mothers' Day here was about the same as last year, except that the call for carnations was better distributed among the colors, and there was a better call for roses, daffodils, tulips and in fact all other flowers instead of carnations. Business has been good right along, in spite of war exigencies and if everyone will only go on with work as usual and not preach hard times, business will undoubtedly be O. K.

Hartford, Conn.—Dr. George C. F. Williams was elected to succeed Charles Welles Gross as president of the board of park commissioners at the annual meeting on Monday, May 7. The appointment is subject to confirmation by the board of aldermen. Professor Edwin Knox Mitchell was chosen to succeed himself as a member of the board for a term of ten years, having acted since May 9, 1914, as a member filling out an unexpired term.

St. Paul, Minn.—Holm & Olson report a 50 per cent. increase in Mothers' Day business over that of last year, the business really amounting to a holiday patronage. They had no complaint against the high prices they were forced to charge for carnations. Other flowers sold well but red carnations took the lead. Mr. Olson writes as follows:

I believe that Mother's Day is now firmly established, and that the demand for flowers is going to be much greater each year. But we must use care in exploiting the commercial side of it so as not to create in the minds of the public the thought that we are appropriating the beautiful sentiments of Mother's Day for gain and thereby cause them to resent being "held up" for flowers. This I consider of much importance, and trust that a plan along these lines can be carried out for next year, with everybody cooperating.

CATALOGUES RECEIVED.

Henry Schmidt, North Bergen, N. J.—Trade price sheet of Primulas, Calceolarias, Cinerarias, etc.

Alexander McConnell, New York.—List of New Hybrid Tea Roses and miscellaneous collection of pot-grown roses for garden culture. Attractively illustrated.

GROW FLOWERS FOR NEW YORK!

The Biggest, Most Elastic, Most Appreciative Flower Using City in the World

SEND YOUR FLOWERS to the newest and best *equipped wholesale commission store in New York open for business now at new address

130 WEST 28th STREET

I Mean Business. I have now all the facilities to receive and dispose of MORE FLOWERS than in the past. Write or call and TALK IT OVER.

HERMAN WEISS

WHEN BUYING GOODS BE SURE YOU HAVE A CONTRACT THAT IS A CONTRACT.

Most business people are familiar with the fundamental legal principle that where a seller of merchandise fails through any fault of his own to deliver what he has sold, the buyer can go out in the open market and buy the quantity of merchandise the seller should have delivered, and charge the latter with any higher price he may have to pay.

To illustrate, if the contract price was \$1 a dozen, and the buyer, after the seller's default, had to pay \$1.25, he could sue the seller for 25 cents a dozen, this being his loss through the seller's default.

This is one of the fairest and most salutary principles of law that I know of, and in innumerable cases it has come in very handy. The purpose of this article is to emphasize the need of being sure, when you buy goods by written order, that you are making the kind of contract under which you can recover your losses in the way I have described. A case has just been decided by the highest Appeal Court of Pennsylvania which shows that very many of the contracts in everyday use in the purchase and sale of merchandise are not of that kind. This is a Pennsylvania case, but it would be affirmed by any court in the United States, and is therefore the general law.

The maker of a certain product wrote the following letter to a prospective buyer:—

Reverting to telephone conversation with our Mr. Walter J. Wilhelm, who is now East, we confirm sale of

Two tank cars of at \$1.51 per cwt. Terms 10 days net cash f. o. b. Pittsburgh which in accordance with agreement, is subject to approval of type sample drawn from bulk, which will be submitted immediately upon receipt from the plant involved.

We highly appreciate this item of business, and you may rest assured that every effort will be made upon our part to meet your entire approval at all points.

I omit the name of the product merely because I do not wish the principle

—which is of course the same, no matter what the product is—to be obscured by mentioning any particular product.

The buyer answered as follows:—

Please ship the following goods f. o. b. Pittsburgh:—

Two tank cars Price \$1.51 cwt. Pittsburgh.

The above subject to approval of sample drawn from bulk when submitted.

Now, the average business man, with these letters in his possession, would be apt to conclude that he had a complete contract for the purchase of merchandise, good enough to protect him at every point. Yet the courts said it was no contract at all.

The seller here for some reason failed to deliver. The buyer, believing his contract to be all right, went out and bought two cars of the product. He had to pay more than \$4.51 per cwt. and he at once sued the defaulting seller for the difference. The court said he could not recover, because the parties had never completed the making of their contract. In other words, they had never fixed what particular grade of product was to pass, and until they did that there was no contract. This is the core of the decision:—

The contract was lacking in one particular essential, the minds of the parties had not met on the quality of the commodity, as that was to be determined by sample thereafter to be submitted for plaintiff's approval. Until such approval there was no completed agreement. Should plaintiff disapprove the sample drawn from bulk there would be no sale. There is nothing requiring defendant to submit samples from successive tank cars until two were found that would meet plaintiff's approval.

This stipulation in the letters indicates that there are different grades of this product, or at least that the quality thereof varies, hence the contract was subject to plaintiff's approval of the sample. It is somewhat like an agreement for the sale of lumber, subject to the buyer's approval of a sample thereof to be submitted. In such case the approval is the act whereby the parties agree upon the quality of the commodity, and until that is done it cannot be said that the bargain is closed. In the case at bar the plaintiff never waived the production of a sample and never agreed to accept the product without reference to the quality.

In other words, the court's position was that the parties here had never bought or sold any particular thing. They had agreed to buy and sell, provided the buyer approved the sample when it was submitted to him. If he did not approve the sample there was no sale. There would not be a complete, enforceable contract until a sample had been submitted and approved.

There is a very large number of contracts of this type in everyday business use. Contracts that make the deal, but leave it subject to the buyer's approval of something, such as approval of sample, or approval of opening price. They are really nothing but memoranda out of which, when something more is done, may come a contract.

Take a contract for so much merchandise, subject to approval of opening price. Of course, if the seller never names an opening price, the buyer has nothing he can go on. And in a sale subject to approval of sample, like the case cited above, there is no contract unless and until the seller submits a sample.

How could the buyer in the case cited have protected himself against what happened? I may not be able to answer this, for I am naturally not well acquainted with the customs of the particular trade, but it seems reasonably clear that he would have been protected if he had declined to buy on approval of a sample to be selected, but had insisted on not placing any order until some sample had been submitted, and then placing it on that. That would have been a contract.

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H. BAYERSDORFER & CO.

1129 Arch St. PHILADELPHIA, PA.

MEMORIAL DAY SUPPLIES

There will be a tremendous demand this year for these goods. A Full Line of Bridal Accessories for the June Wedding Decorations. STOCK UP NOW.

THE FLORISTS' SUPPLY HOUSE OF AMERICA

BEAUTIES

as we can furnish you give satisfaction
and at our price is profitable stock
for you to handle.

THE LEO NIESSEN CO.

Wholesale Florists

1201-05 Race Street,

PHILADELPHIA, PA.

To Cut Flower Growers and Retail Florists

IF YOU

want to find a market for your
product

want a regular or special supply
of the product of the best
growers

Consult the Advertisements on
these Wholesale Flower Pages

The Advertisers Represented Here are the Leading
Concerns in the Wholesale Flower Trade

EDWARD REID WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.

CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

Philadelphia Wholesale Florist Exchange

ROSES OUR SPECIALTY

A trial order will convince you
1615 Ranstead St., PHILADELPHIA, PA.

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$2.00. 50,000...\$8.75. Sample free.
For sale by dealers.

E. G. HILL CO.

Wholesale Florists

RICHHMOND, IND.

Please mention Horticulture when writing.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

264 RANDOLPH ST., DETROIT, MICH.

The House for Quality and Service

ZECH & MANN

We are Wholesale Florists Doing
a Strictly Wholesale Business

30 East Randolph Street, CHICAGO



POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut Flower Market

Daily consignments from
leading growers

Full line of Florists'
Supplies

Write for quotations before
ordering elsewhere

262B DEVONSHIRE ST., BOSTON, MASS.
Telephone, Main 6267-6268

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON May 17		ST. LOUIS May 14		PHILA. May 14	
Roses						
Am. Beauty, Special.....	20.00	to 30.00	30.00	to 40.00	25.00	to 40.00
" " Fancy and Extra.....	10.00	to 15.00	20.00	to 30.00	15.00	to 20.00
" " No. 1 and culls.....	3.00	to 10.00	5.00	to 10.00	3.00	to 8.00
Russell, Euler, Mock.....	2.00	to 12.00	3.00	to 20.00	3.00	to 20.00
Hadley.....	2.00	to 18.00	8.00	to 12.00	3.00	to 15.00
Arenberg, Hoosier Beauty.....	1.00	to 6.00	.....	to 5.00	3.00	to 8.00
Ward.....	1.00	to 6.00	4.00	to 8.00	3.00	to 5.00
Killarney, Radiance, Taft.....	1.00	to 8.00	3.00	to 5.00	3.00	to 8.00
Ophelia, Sunburst, Hillingdon.....	1.00	to 8.00	5.00	to 10.00	3.00	to 8.00
Key.....	1.00	to 6.00	.....	to 5.00	.....	to 5.00
Carnations	3.00	to 3.00	3.00	to 4.00	3.00	to 5.00
Cattleyas	30.00	to 75.00	.....	to 50.00	50.00	to 75.00
Dendrobium formosum.....	.....	to 50.00	.....	to 50.00	.....	to 50.00
Lilies, Longiflorum	4.00	to 8.00	10.00	to 12.50	10.00	to 15.00
Lilies, Speciosum.....	.....	to 8.00	.....	to 12.00	.....	to 12.50
Callas	4.00	to 8.00	.....	to 6.00	10.00	to 12.50
Lily of the Valley	4.00	to 8.00	.....	to 6.00	4.00	to 8.00
Snopdragon	3.00	to 6.00	4.00	to 10.00	.....	to 10.00
Daffodils.....	.50	to 1.00	2.00	to 3.00	.....	to 3.00
Narcissi, Paper White.....	.....	to 2.00	.....	to 2.00	.....	to 2.00
Roman Hyacinths.....	.....	to 2.00	.....	to 2.00	.....	to 2.00
Freesia.....	.....	to 2.00	.....	to 2.00	.....	to 2.00
Tulips	1.00	to 2.00	3.00	to 5.00	.....	to 5.00
Calendulas	1.00	to 2.00	.....	to 2.00	1.00	to 2.00
Sweet Peas.....	.25	to 1.25	.40	to .75	.50	to 1.00
Violets	1.00	to 2.00	.....	to 1.00	1.00	to 2.00
Marguerites	1.00	to 2.00	.....	to 1.00	1.00	to 2.00
Gardenias	2.00	to 25.00	.....	to 25.00	20.00	to 25.00
Adiantum	1.00	to 1.50	.....	to 1.00	1.00	to 2.00
Smilax	12.00	to 20.00	12.50	to 15.00	15.00	to 25.00
Asparagus Plumosus, & Spreng. (100 Bchs.).....	25.00	to 35.00	25.00	to 35.00	.....	to 50.00

WILLIAM F. KASTING Co. Wholesale Florists

568 570 WASHINGTON STREET - BUFFALO, N. Y.

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER of

CUT FLOWERS



PEONIES

With good warm weather between now and MEMORIAL DAY, our Local Peonies will be in. Probably the best quality, owing to the cool weather, we have ever handled.

\$8.00 and \$10.00 per 100

A Few Novelties at \$12.00

New Crop Dagger Ferns ready now—\$2.50 per 1,000; in lots of 5,000, \$2.00 per 1,000.

S. S. PENNOCK-MEEHAN CO.

THE Wholesale Florists of PHILADELPHIA

NEW YORK
117 W. 28th St.

PHILADELPHIA
1608-1620 Ludlow St.

BALTIMORE
Franklin & St. Paul Sts.

WASHINGTON
1216 H St., N.W.

Flower Market Reports

BOSTON This market was healthy all last week and for the first day or two this week but has now fallen off very decidedly with prospects of a slow finish. Mothers' Day made a considerable impression but the advance in white carnations to \$8.00 a hundred came to grief on Saturday morning when the limit fell to \$5.00. Since that time fifty per cent. more has been lopped off. Roses are coming in heavily and are probably due for a cut in market values due for a cut in the market values before the close of this week. Lily of the valley is very scarce, no outdoor blooms being yet in evidence. Sweet peas are a strong factor, being plentiful and of fine quality. Spanish iris are moving briskly at \$6.00 per 100. There are large quantities of Golden Spur narcissi, which sell slowly at \$5.00 a thousand.

CHICAGO Mothers' Day was a surprise even to those who anticipated a big day. It seemed like another Easter Saturday, and the amount of good stock in the market was not adequate to the needs of the buyers. All through the month orders had been piling up and many had to be refused for lack of stock, so the last minute orders stood little chance of being filled and many florists in neighboring towns were without stock. One wholesaler received a letter on Monday saying ribbon had been substituted in his town. The cold days had kept stock back and prices had been good all through the week. The carnations that had been held back for the highest prices could have realized the growers a nice sum had they been sent in earlier instead of becoming worthless by age. Many outside buyers could not credit the reported condition of the market and came in person to buy stock if possible. Monday following was a fairly busy day and prices are about the same as for Mothers' Day. Producers of pickled carnations had their innings when stock was shipped out, but their outings came when that same stock was returned by the expressman on Monday. Much

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI May 14	CHICAGO May 7	BUFFALO May 14	PITTSBURG May 15
Roses				
Am. Beauty, Special.....	35.00 to 40.00	35.00 to 40.00	20.00 to 25.00	20.00 to 25.00
" " Fancy and Extra.....	20.00 to 30.00	20.00 to 35.00	15.00 to 20.00	12.00 to 15.00
" " No. 1 and culls.....	8.00 to 15.00	4.00 to 10.00	3.00 to 5.00	6.00 to 10.00
Russell, Euler, Mock.....	6.00 to 15.00	3.00 to 25.00	8.00 to 12.00	8.00 to 15.00
Hadley.....	6.00 to 15.00	..... to	4.00 to 8.00	..... to
Arenberg, Hoosier Beauty.....	5.00 to 12.00	3.00 to 12.00	3.00 to 8.00	6.00 to 12.00
Ward.....	4.00 to 8.00	3.00 to 10.00	2.00 to 6.00	6.00 to 12.00
Killarney, Radiance, Taft.....	4.00 to 10.00	3.00 to 10.00	3.00 to 6.00	4.00 to 10.00
Ophelia, Sunburst, Hillingdon.....	6.00 to 12.00	3.00 to 12.00	3.00 to 6.00	6.00 to 12.00
Key.....	..... to .....	..... to	8.00 to 10.00	..... to
Carnations	4.00 to 6.00	3.00 to 8.00	2.00 to 4.00	2.00 to 3.00
Cattleyas	50.00 to 75.00	75.00 to 100.00	40.00 to 50.00	50.00 to 75.00
Dendrobium formosum.....	..... to .....	..... to .....	..... to .....	..... to
Lilies, Longiflorum	10.00 to 12.50	8.00 to 12.00	8.00 to 10.00	10.00 to 12.00
Lilies, Speciosum.....	..... to .....	..... to	3.00 to 4.00	..... to
Callas	8.00 to 10.00	6.00 to 10.00	6.00 to 10.00	..... to
Lily of the Valley.....	..... to 6.00	5.00 to 6.00	6.00 to 7.00	6.00 to 8.00
Snaydragon	6.00 to 12.50	6.00 to 12.00	4.00 to 8.00	6.00 to 8.00
Daffodils	2.00 to 3.00	3.00 to 4.00	1.00 to 2.00	1.00 to 2.00
Narcissi, Paper White.....	..... to .....	..... to	1.00 to 2.00	..... to
Roman Hyacinths.....	..... to .....	..... to	1.00 to 2.00	..... to
Freesia.....	..... to	2.00 to 3.00	2.00 to 3.00	..... to
Tulips	3.00 to 4.00	2.00 to 3.00	1.00 to 2.00	3.00 to 4.00
Calendulas	2.00 to 3.00	..... to 2.00	1.00 to 3.00	2.00 to 4.00
Sweet Peas	50 to 1.00	50 to 1.50	50 to 1.50	50 to 1.50
Violets.....	..... to .....	..... to	30 to 50	..... to
Marguerites.....	..... to 1.00	..... to	1.00 to 1.50	1.00 to 2.00
Gardenias.....	..... to	15.00 to 20.00	10.00 to 15.00	..... to
Adiantum.....	..... to 1.00	1.00 to 1.25	..... to 1.00	1.00 to 1.25
Smilax.....	..... to 15.00	15.00 to 25.00	..... to 15.00	15.00 to 20.00
Asparagus Plu. & Spren. (100 Bhs.)	25.00 to 50.00	25.00 to 50.00	25.00 to 35.00	40.00 to 60.00

that never left the market found its way to the barrels—as on other holidays.

Business for Mothers' Day was excellent, and high prices prevailed. There was a decided shortage if flowers, which coupled with the stiff demand, caused the high prices. Many more plants were sold than at any previous Mothers' Day. Neither roses nor carnations are any too plentiful. A good cut of sweet peas is coming in and are having a good market. Lilies are plentiful, and callas fairly plentiful. Peonies are increasing. Greens are abundant.

The flower trade thus far in the week is almost completely stagnated. The wholesale district is

as apathetic as at the lowest ebb of midsummer and considerable apprehension is expressed lest this premature lethargy may be typical of what we may expect for the rest of the season. Some little resentful comment is rife among the retail people who think they see in the attitude of the public a virtual protest against the prices enforced on certain flowers for Mothers' Day. There are quantities of shrub flowers coming in and the lily of the valley problem is temporarily shelved by the receipts of large quantities of outdoor blooms of fine quality. Roses are very fine, a fact which is doubtless due in a considerable degree to the unseasonable cool weather of the past weeks. There are great quantities of lilies of all grades from very

(Continued on page 661)



IN CHICAGO

For the Retailer or for the Grower
KENNICOTT BROS. CO.
Wholesale Cut Flowers

H. B. KENNICOTT, President.

J. B. POLLWORTH, Sec'y and Gen'l Mgr

H. E. FROMENT

Wholesale Commission Florist
Choice Cut Flowers
New Address, 143 West 28th St., NEW YORK
Telephones: 2200, 2201, Madison Square.

HENTZ & NASH, Inc.

Wholesale Commission Florists
55 and 57 West 26th Street
Telephone No. 755
Farragut New York

WM. P. FORD

Wholesale Florist
107 W. 28th Street, NEW YORK
Telephone 5335, Farragut.
Call and inspect the Best Establishment
in the Wholesale Flower District.

GEO. C. SIEBRECHT

WHOLESALE FLORIST
109 WEST 28th ST
CONSIGNEDMENTS SOLICITED
PHONE 608 FARRAGUT NEW YORK
609

JOHN YOUNG & CO.

WHOLESALE FLORISTS
53 WEST 28th STREET NEW YORK CITY
Consignments Solicited
Phone 7362 Madison Square

THE KERVAN COMPANY

Ferns, Mosses, Wild Smilax, Galax,
Leucothoe, Palmetto, Cycas, both fresh
cut and prepared.
Laurel, Hemlock, all Decorative Evergreens.
Tel. (1593) Mad. Sq. 119 W. 28 St., New York
5093

WILLIAM H. KUEBLER

Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
8 Willoughby St., Brooklyn, N. Y.

M. C. FORD

121 West 28th St., NEW YORK
FINE ROSES, FANCY CARNATIONS
A Full Line of ALL CUT FLOWERS.
Telephone 3870 Farragut.

GEORGE B. HART

WHOLESALE FLORIST
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NEW YORK QUOTATIONS PER 100. To Dealers Only**ROSES AND CARNATIONS**

	Last Half of Week ending May 12 1917		First Half of Week beginning May 14 1917	
American Beauty, Special	25.00	to 30.00	25.00	to 30.00
" " Fancy and Extra	15.00	to 20.00	15.00	to 20.00
" " No. 1 and culls.	4.00	to 8.00	4.00	to 8.00
Russell, Euler, Mock	1.00	to 12.00	2.00	to 12.00
Hadley	3.00	to 40.00	2.00	to 40.00
Arenberg, Hoosier Beauty	1.00	to 8.00	1.00	to 8.00
Ward	1.00	to 8.00	1.00	to 8.00
Killarney, Radiance, Teft	1.00	to 8.00	1.00	to 8.00
Ophelia, Sunburst, Hillingdon	1.00	to 8.00	1.00	to 8.00
Key	1.00	to 8.00	1.00	to 8.00
Carnations	3.00	to 10.00	1.00	to 3.00

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WHOLESALE FLORISTS
55-57 West 26th Street
Telephones, 13—8510 Madison Square Consignments Solicited
MAURICE L. GLASS, Treasurer

Flower Market Reports

(Continued from page 659)

poor to superb and they sell accordingly. The carnation situation is gradually righting itself after the disturbance emanating from the home of Miss Jarvis and Robert Kift. The bulk of the white carnations arriving on Friday and Saturday was gathered in for shipment to the City of Brotherly Love at prices that made New York retailers stand aghast and put a virtual boycott on the white carnation. Even the Greeks, who are usually good sports when such an emergency arises, kicked over the traces.

In the words of **PHILADELPHIA** one of our leading wholesalers —“it was a strenuous week”—May 7th to 12th. Carnations started in Monday with a two-cent advance and kept that pace up to Friday when 12 cents were realized for the best whites. Colored carnations also sold well. In fact, these brought better prices than ever before at this season. As high as 8c. for really fancy stock. Roses were scarce on account of the cool cloudy weather. Prices stiffened up considerably, especially on double white Killarney. There was a limited supply of Kaiserin and these were quickly snapped up. Sweet peas had a splendid innings, both as to quality and demand. One grower cut nearly 100,000 during the week and we understand he averaged returns 90 cents, which is “going some” for a May week in little old Lathyrus odoratus, and that is but a random instance in the immense business done all along the line. Snapdragon is still plentiful and of good quality. The demand for same has improved a little. Lily of the valley scarcer than ever. It looks as if we would have to do without this old standby pretty soon. Some good outdoor lily of the valley now arriving, but that will not last long. Spanish iris is a popular feature—especially the lavender. The peony men are down on their knees. Oh, Lord, send us hot weather, before Memorial Day.

Notwithstanding the **PITTSBURGH** shortage of stock of all kinds, Mothers' Day almost doubled the receipts over last year, owing to the big increase in prices. While it was impossible to even begin to supply the demands for carnations (which retailed at 25 cents apiece and \$2.00 a dozen), other flowers were substituted with the most gratifying results. Florists in Warren, who raised the price of carnations to 15 cents apiece, were badly “stung.” Very few were worn, the most conspicuous display among the church congregations being a bow of white or red ribbon. Huge stocks of flowers which the florists had expected to dispose of, were still on their hands on Monday.

The market was **ROCHESTER**, somewhat slack at **N. Y.** the beginning of last week, but the latter half has been quite brisk. Mothers' Day trade livened up things considerably and most of the stores report a record business. Carnations were the most in demand and sold at good figures. The market was well supplied with roses of good quality. A great quantity of Ophelia and red varieties

PATRICK WELCH,

WHOLESALE FLORIST

262 DEVONSHIRE STREET, BOSTON, MASS.

American Beauties, Orchids, Valley, Carnations. All the novelties in the Cut Flower Market furnished on short notice. Prices quoted on application. No retail orders accepted. Flowers shipped out of Boston on early trains.

STORE OPEN FOR BUSINESS AT 6 A. M. TELEPHONE MAIN 2696.

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending May 12 1917		First Half of Week beginning May 14 1917	
Cattleyas.....	20.00	to 50.00	20.00	to 50.00
Dendrobium formosum.....	.....	to 50.00	.....	to 50.00
Lilies, Longiflorum.....	2.00	to 6.00	2.00	to 6.00
Lilies, Speciosum.....	2.00	to 6.00	2.00	to 6.00
Callas.....	3.00	to 6.00	3.00	to 6.00
Lily of the Valley.....	3.00	to 8.00	3.00	to 8.00
Snappedragon.....	1.00	to 5.00	1.00	to 5.00
Daffodils.....	.50	to 1.50	.50	to 1.50
Spanish Iris.....	1.00	to 3.00	1.00	to 3.00
Roman Hyacinths.....	.....	to .....	.....	to
Tulips.....	.....	to .....	.....	to
Calendulas.....	1.00	to 2.00	1.00	to 2.00
Sweet Peas.....	.50	to 1.00	.50	to 1.00
Violets.....	.15	to 1.00	.15	to 1.00
Marguerites.....	.....	to .....	.....	to
Gardenias.....	1.00	to 2.00	1.00	to 2.00
Adiantum.....	4.00	to 30.00	4.00	to 30.00
Smilax.....	.50	to 1.00	.50	to 1.00
Asparagus Plumosus, & Spreng. (100 bunches).....	15.00	to 20.00	15.00	to 20.00
	15.00	to 25.00	15.00	to 25.00

J. K. ALLEN,

WHOLESALE COMMISSION FLORIST.

Always Ready to Receive Consignments and Can Market Them Satisfactorily. Wanted Specially, Early Peonies, Gladioli, etc., for Spring Trade.

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32 Otis Street, 2 Winthrop Square
BOSTON, MASS.
Telephone 2618-2617-2616, Main.

moved very easily. Lilies and calla are plentiful and do not sell over fast. A small consignment of lily of the valley reached us this week and was welcomed. Cattleyas are good and sell well. Narcissi are quite plentiful and sell fairly well although many are seen in bloom outdoors. Yellow and white daisies, stocks, sweet peas and forget-me-nots sell good. A good quantity of potted plants are on the market but bedding stock sells somewhat slowly on account of the cold and unsettled weather. Busy preparations are being made for Memorial Day.

We are having nothing **ST. LOUIS** but cloudy and rainy weather and flowers consequently are not plentiful. Roses are still in heavy supply but the worst of the glut is over. Sweet peas have fallen off somewhat, but there are enough anyway. Mothers' Day was advertised widely and was a decided success, carnations and sweet peas taking the lead, fancy boxes also selling well. Several retailers, looking for small profits, sold carnations at \$1.00 per dozen. A good many lilies are thrown away.

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Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

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ASPARAGUS SEED

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Plumosus Nanus.
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ASPARAGUS

Asparagus Plumosus Seedlings, \$1.00 per 100, \$5.00 per 1000. Ready May 1st. COLLINGDALE GREENHOUSES, Collingdale, Pa.

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Henderson's Invincible, a fine Aster for cutting and trade pullers for your customers' own planting; separate colors, strong, transplanted plants, prompt shipment; \$5.00 per 1000. Cash. BRILL CELERY GARDENS, Kalamazoo, Mich.

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A. Leuthy & Co., Roslindale, Mass.
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Geraniums, Nutt, Ricard, Viaud, Buchner, 4-in., \$8.00 per 100. Nutt and Rose Scented, 3½-in., \$6.00 per 100. Germany Ivy, Canna Robusta, 3½-in., \$6.00 per 100. Dracaena Indivisa, 3-in., \$7.00 per 100. Geranium Salleri, Coleus Trailing Queen, Begonia Vernon, Blue Ageratum, White Daisy, 3-in., \$5.00 per 100. White Daisy, 4-in., \$15.00 per 100. Cash. F. SOKOL, College Street, Worcester, Mass.

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BEGONIA LORRAINE.
2¼-in. pots, \$14.00 per 100; \$120.00 per 1000.
BEGONIA MRS. J. A. PETERSON.
2¼-in. pots, \$20.00 per 100; \$180.00 per 1000.
JULIUS ROEHR'S COMPANY,
Rutherford, N. J.

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Bulbs of all descriptions. Write for prices.
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CARNATION STAPLES

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 1000 for 35c.; 3000 for \$1.00 post-paid. I. L. PILLSBURY, Galesburg, Ill.

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Best strain separate colors or mixed.
3-in. pots, \$10.00 per 100; \$90.00 per 1000.
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S. A. Nutt Geraniums, rooted cuttings, \$1.25 per 100, \$10 per 1000; unrooted cuttings, 75c. per 100, \$6 per 1000. W. E. ALLEN, 185 Exchange St., Leominster, Mass.

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Greenhouse glass, lowest prices. JOHN-STON GLASS CO., Hartford City, Ind.

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Lemon Oil Insecticide.
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Iris, German, 10 named varieties, \$2.00 per 100. Japanese, white, purple, mixed, \$5.00 per 100. AMON HEIGHTS NURSERIES, Camden, N. J.

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Henry A. Dreer, Philadelphia, Pa.

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August Rolker & Sons, New York City.
Holland Nursery Stock.
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Cottage Gardens Nurseries, Inc.,
Eureka, Calif.
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NUT GROWING

The Nut-Grower, Waycross, Ga.
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ORCHID PLANTS

Orchid Hybrids.
Sanders, St. Albans, England, also
Walter Gott, McAlpine Hotel, N. Y. City.
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Beechwood Heights Nurseries,
Bound Brook, N. J.
Importers and Growers of Orchids.
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Julius Roehrs Co., Rutherford, N. J.
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Lager & Hurrell, Summit, N. J.
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HASSALL & CO., Orchid Growers and
Raisers, Southgate, London, England. Im-
mense stock of Cattleyas.

PAINTS AND PUTTY

The Dwell-Kaiser Co., Buffalo, N. Y.
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Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

PANSY PLANTS

200,000 large, stocky (Sept. transplanted),
field-grown blooming pansy plants, Henry
Mette's strain, all salable stock, satisfaction
guaranteed. \$1.25 per 100, \$11.50 per 1000.
Cash. Prompt shipping.

BRILL CELERY GARDENS,
KALAMAZOO, MICHIGAN.

PETUNIAS

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
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PEONIES

Peonies. The world's greatest collection.
1200 sorts. Send for list. C. BETSCHER,
Canal Dover, O.

Complete manuals on the Peony, Iris and
Phlox. 25 cents each in stamps. C. S.
HARRISON, York, Nebraska.

PHLOX

Phlox, white or pink, \$3.00 per 100.
AMON HEIGHTS NURSERIES, Camden,
N. J.

PECKY CYPRESS BENCHES

Metropolitan Material Co., Brooklyn, N. Y.
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A. T. Stearns Lumber Co., Boston, Mass.

PIPE AND FITTINGS.

Kroeschell Bros. Co., Chicago.
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King Construction Company,
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
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Metropolitan Material Co., Brooklyn, N. Y.
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PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

PLANT AND BULB IMPORTS

Chas. Schwake & Co., New York City.
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August Rolker & Sons, New York City.
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McHutchison & Co., New York City.
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PRIMULAS

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RHODODENDRONS

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RIBBONS AND CHIFFONS

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ROSES

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Henry A. Dreer, Philadelphia, Pa.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
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Bay State Nurseries, North Abington, Mass.
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August Rolker & Sons, New York City.
Hardy Roses.
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ROSES, CANNAS AND SHRUBS.
THE CONARD & JONES COMPANY,
WEST GROVE, PA.

SASH

Metropolitan Material Co., Brooklyn, N. Y.
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SEASONABLE PLANT STOCK

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
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SEEDS

Carter's Tested Seeds.
Seeds with a Pedigree.
Boston, Mass., and London, England.
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Joseph Breck & Sons, Boston, Mass.
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J. Bolgiano & Son, Baltimore, Md.
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A. T. Boddington Co., Inc., New York City.
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Chas. Schwake & Co., New York City.
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Michell's Seed House, Philadelphia, Pa.
Primula Seed.
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W. Atlee Burpee & Co., Philadelphia, Pa.
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R. & J. Farquhar & Co., Boston, Mass.
Gold Medal Cyclamen Seed.
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J. M. Thorburn & Co., New York City.
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Amt. C. Zvolanek, Lompoc, Cal.
Winter Flowering Sweet Pea Seed.
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S. S. Skidelsky & Co., Philadelphia, Pa.
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Kelway & Son, Langport, England.
Seeds, Selected Strains.
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W. E. Marshall & Co., New York City.
Seeds, Plants and Bulbs.
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Burnett Bros., 98 Chambers St., New York.
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Leonard Seed Co., Chicago, Ill.
Seeds and Seed Service.
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Roman J. Irwin, New York City.
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S. D. Woodruff & Sons, New York City and
Orange, Conn.
Garden Seeds.
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SEEDS—Continued

Thomas J. Grey Co., Boston, Mass.
Seeds, Bulbs, Implements.
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Fottler, Fisk, Rawson Co., Boston, Mass.
Seeds for the Florist

SHELF BRACKETS

Metropolitan Material Co., Brooklyn, N. Y.
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SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. LAGER
& HURRELL, Summit, N. J.

SWEET PEA SEED

Ant. C. Zvolanek, Lompoc, Calif.
Gold Medal of Honor Winter Orchid Sweet
Peas.
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TREE SURGERY

Davey Tree Expert Co., Kent, Ohio.

VASES

H. Bayersdorfer & Co., Philadelphia, Pa.
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VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

Celery plants, Golden Self Blanching
(French strain), also the grand new Easy
Blanching variety, which is easy to grow;
fine plants, ready for the field, \$2.00 per
1000, or \$8.75 for 5000. Cash. BRILL
CELERY GARDENS, Kalamazoo, Mich.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
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The John A. Evans Co., Richmond, Ind.
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VERMICIDES

Aphne Mfg. Co., Madison, N. J.
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WEED KILLER

Pino-Lyptol Chemical Co., New York.
Pino-Lyptol Weed Killer.
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WHEAT SHEAVES

H. Bayersdorfer & Co., Philadelphia, Pa.
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WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
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WIREWORK

Reed & Keller, New York City.
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WILLIAM E. HEILSCHER'S WIRE
WORKS, 264 Randolph St., Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
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Baltimore

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Boston

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Patrick Welch, 262 Devonshire St.
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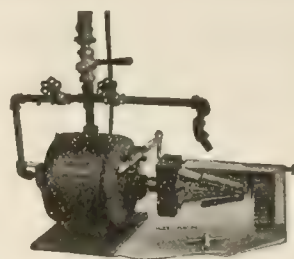
H. M. Robinson & Co., 32 Otis St. and 2
Winthrop Sq.
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For List of Advertisers See Page 639

Est. 1765

Pot Makers for a
Century and a Half**HEWS****STRONG
RED
POROUS****POTS**

Inc. 1904

World's Largest
ManufacturersStandard, Azalea, Bulb, Orchid, Fern, Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.Write for Catalogue
and Discounts**A. H. HEWS & CO., Inc., Cambridge, Mass.**Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.**WHOLESALE FLORISTS****Brooklyn**Wm. H. Kuebler, 28 Willoughby St.
For page see List of Advertisers.**Buffalo, N. Y.**William F. Kasting Co., 568-570 Washing-
ton St.
For page see List of Advertisers.**Chicago**Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.J. A. Budlong, 184 North Wabash Ave.
For page see List of Advertisers.Zech & Mann, 30 East Randolph St.
For page see List of Advertisers.Kennicott Bros. Co., 163-65 N. Wabash Ave.
For page see List of Advertisers.**Detroit**Michigan Cut Flower Exchange, 264-266
Randolph St.
For page see List of Advertisers.**New York**H. E. Froment, 148 W. 28th St.
For page see List of Advertisers.W. F. Sheridan, 133 W. 28th St.
For page see List of Advertisers.P. J. Smith, 131 West 28th St.
For page see List of Advertisers.Hentz & Nash, 55 and 57 W. 26th St.
For page see List of Advertisers.Charles Millang, 55 and 57 West 26th St.
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28th St.
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26th and 27th Sts.
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For page see List of Advertisers.John Young & Co., 53 West 28th St.
For page see List of Advertisers.M. C. Ford, 121 West 28th St.
For page see List of Advertisers.United Cut Flower Co., Inc., 111 W. 28th St.
For page see List of Advertisers.Guttman & Raynor, Inc., 101 W. 28th St.
For page see List of Advertisers.Gunther Bros., 110 West 28th St.
For page see List of Advertisers.Henry M. Robinson Co., 55-57 W. 28th St.
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For page see List of Advertisers.J. J. Coan, 115 West 28th St.
For page see List of Advertisers.Joseph S. Fenrich, 51 West 28th St.
For page see List of Advertisers.Frank Millang, 55-57 West 26th St.
York City.
For page see List of Advertisers.The Beechwood Heights Nurseries, Thos.
Young, Jr., Prop., 57 West 28th St.
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For page see List of Advertisers.The S. S. Pennock-Meehan Co., 1608-20
Ludlow St.
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1615 Ranstead St.
For page see List of Advertisers.**Richmond, Ind.**E. G. Hill Co.
For page see List of Advertisers.**Rochester, N. Y.**George B. Hart, 24 Stone St.
For page see List of Advertisers.**Washington**The S. S. Pennock-Meehan Co., 1216 H St.,
N. W.
For page see List of Advertisers.**New Offers In This Issue****COLD STORAGE LILY BULBS.**Arthur T. Boddington Co., Inc., New York
City.
For page see List of Advertisers.**FLOWER CONSIGNMENTS WANTED**Herman Weiss, New York City.
For page see List of Advertisers.**GREENHOUSE CONSTRUCTION.**Wm. H. Lutton Co., Jersey City, N. J.
For page see List of Advertisers.**NIEREMBERGIAS.**Henry Schmidt, No. Bergen, N. J.
For page see List of Advertisers.**PEONIES.**S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.**THE "PRESTO" POT WASHER.**Keitch & Co., Cleveland, Ohio.
For page see List of Advertisers.**WALK-TYPE MOTOR MOWERS.**Coldwell Lawn Mower Co., Newburgh, N. Y.
and Chicago, Ill.
For page see List of Advertisers.**WANTS, FOR SALE, Etc.****HELP WANTED****WANTED**—Man with experience in
general greenhouse work. Apply to Newton
Rose Conservatories, Newtonville, Mass.
Telephone, Newton North 404.**WANTED**—For private estate, single man
as first assistant, under glass. Must under-
stand fruit, flowers and pot plants. Wages,
\$70. Convenient place, 15 miles from New
York. Give copies of references and particu-
lars to "S." care of HORTICULTURE.**SITUATIONS WANTED****SITUATION WANTED** as Superinten-
dent or Head Gardener on private estate.
American, 44, two children. Ten years
head gardener with Mrs. J. P. Kernochan.
Experienced in vegetable, greenhouse, fruit
and outdoor work. PATRICK F. REY-
NOLDS, 565 Spring St., Newport, R. I.**CLEAN POTS
MAKE POSSIBLE
PERFECT PLANTS****The "Presto" Pot Washer**Electric, Water and Belt
Power

Write Today State Kind of Power

KEETCH & COMPANY
5th Floor, 1240 Huron Rd.
CLEVELAND, O.

Successors to Fowler, Mfg. & Supply Co.

**TREES, SHRUBS, VINES and
HERBACEOUS PERENNIALS**

By JOHN KIRKEGAARD

Formerly Assistant to Director of the Royal
Botanical Gardens, Copenhagen, Denmark.
Later Twenty Years in American For-
estry and Botanical Work.Assisted by DR. H. T. FERNALD,
Professor of Entomology Massachusetts
Agricultural College and Entomologist,
Massachusetts Agricultural Experiment
Station,

and PROF. E. A. WHITE,

Professor of Floriculture, New York State
College of Agriculture at Cornell Univer-
sity.**A Great Book A Beautiful Book**
A Comprehensive Book**A Practical Book By Practical Men**
There Is No Other Book Like It410 Pages. Planting Plans. Tabular De-
scription and Classification of Species. 59
Full-Page Illustrations in Tone. Authorita-
tive Articles on Many Subjects.**New Edition**

BEAUTIFULLY BOUND IN CLOTH

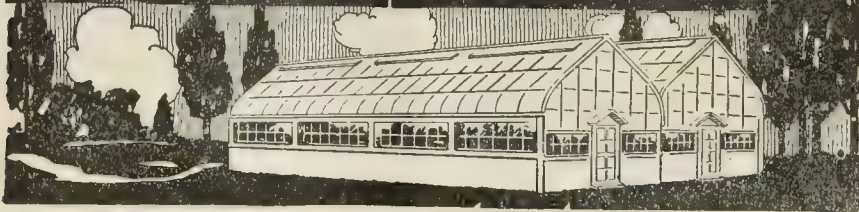
Price only \$2.50 net. Mailing
Price, \$2.71. Money-Back
GuaranteeOrder it from HORTICULTURE
147 Summer St., Boston

JACOBS BUILT TO LAST GREENHOUSES

The strong, simple construction of Jacobs Greenhouses enables us to keep costs down to a minimum, without affecting durability or utility. In commercial greenhouse building, especially, where costs must be carefully considered, we honestly believe we can give you a "bigger dollar's worth" than the average. Backed by half a century's experience. Write for estimates—today!

S. JACOBS & SONS

1359-1385 Flushing Ave. Brooklyn, N. Y.



WE ARE SPECIALISTS IN GREENHOUSE GLASS PAINTS and PUTTY

IROQUOIS WHITE (Semi-Paste).
Most Perfect White Paint Made.

Be sure to get our estimates.

The **DWELLE-KAISER Co.**

241 Elm St., BUFFALO, N. Y.

STANDARD FLOWER POTS

If your greenhouses are within 500 miles of the Capitol, write us; we can save you money.

W. H. ERNEST
29th & M Sts., Washington, D. C.



If you need a boiler in a hurry telephone or telegraph at our expense

KROESCHELL BOILERS

SEND FOR CATALOG

Kroeschell Bros. Co., 466 W. Erie St., Chicago



KING CONSTRUCTION COMPANY, North Tonawanda, N. Y. GREENHOUSES

We Claim Maximum Strength and Minimum Shadow. Investigate

GLASS

AND HOT-BED SASHES

Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.
215-217 Havemeyer St., Brooklyn, N. Y.

The Florists Hall Association rate of insurance from Nov. 1st, 1916 to Nov. 1st, 1917 will be twenty cents per hundred square feet of single thick glass and eight cents per hundred square feet of double thick glass. For particulars address **JOHN G. ESLER, Sec., Saddle River, N. J.**

GET OUR CATALOGUE
On Ventilating Apparatus and Greenhouse Fittings
ADVANCE CO., RICHMOND, IND.

In Writing Advertisers
Kindly Mention
HORTICULTURE

MASTICA

For Greenhouse Glazing
USE IT NOW

F. O. PIERCE CO.
12W. BROADWAY
NEW YORK



Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.



DREER'S
Florist Specialties,
"RIVERTON" Moulded
Garden and Greenhouse
Hose

Furnished in lengths up to 500 ft. without seam or joint.

The HOSE for the FLORIST

3/4 inch, per ft., 16 c.
Reel of 500 ft., " 15 c.
2 Reels, 1000 ft., " 14 1/2 c.
1/2 inch, " 14 c.
Reels, 500 ft., " 13 c.
Couplings furnished

HENRY A. DREER
714-716 Chestnut St.,
PHILADELPHIA, PA.

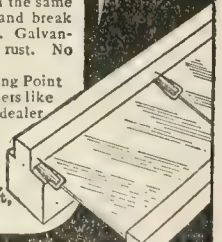
Dreer's Peerless Glazing Points For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts. The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid. Samples free.

HENRY A. DREER,
714 Chestnut Street,
Philadelphia.

FULL
SIZE
No 2



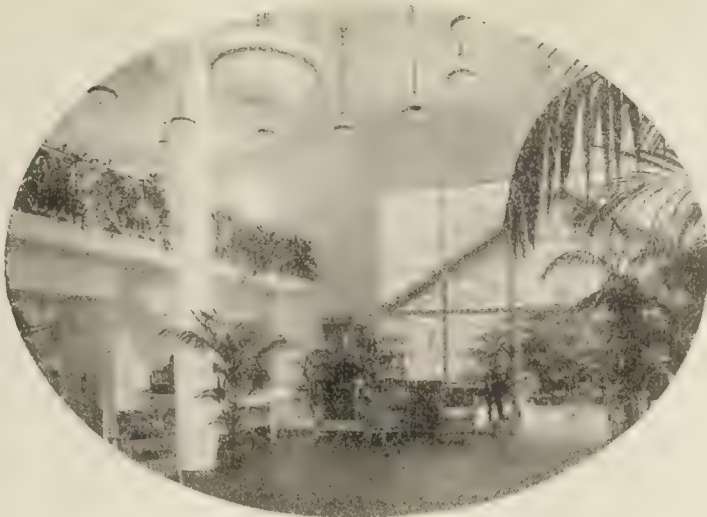
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Difficult and rejected cases specially solicited. No misleading inducements made to secure business. Over 30 years' active practice. Experienced, personal, conscientious service. Write for terms. Address,

SIGGERS & SIGGERS

PATENT LAWYERS
Box 9, National Union Building
Washington, D. C.



Mr. Florist!

Are You Getting the Cream of the Trade?

An impressive Show House will help you immeasurably to attract and hold the cream of your trade.

It will attract, because visible signs of success always attract. You know the old saying, "nothing succeeds like success."

It will help to hold your trade, because customers will find it a real pleasure to view your display and select purchases from it.

We make a specialty of building show Greenhouses for successful florists. Our clean-cut graceful construction with ample head-room gives a fit place to display the finest plants grown. We study the special requirements of each case

and build a structure to exactly meet them.

We recently completed the display Greenhouse illustrated here, for Louis Rodman & Sons, Bushwick Ave. and Conway St., Brooklyn, N. Y. This house is truly artistic and is in keeping in every way with the handsome adjoining shop. At the same time it is one hundred per cent practical.

There are no heavy members at the eave line to cast shadows or collect snow and ice; in fact the entire frame-work, while amply rigid, is very compact, which accounts for the exceptional brightness.

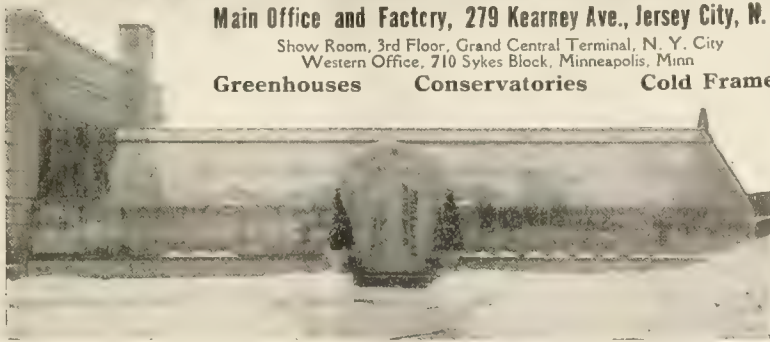
A LUTTON Greenhouse is the most suitable type of display house for the florist. Let us explain why.

WM. H. LUTTON CO.

Main Office and Factory, 279 Kearney Ave., Jersey City, N. J.

Show Room, 3rd Floor, Grand Central Terminal, N. Y. City
Western Office, 710 Sykes Block, Minneapolis, Minn

Greenhouses Conservatories Cold Frames



FOLEY MATERIALS

ARE THE BEST FOR

Iron Frame, Pipe Frame or Wood Frame

GREENHOUSES

Estimate and Sketch Submitted Promptly

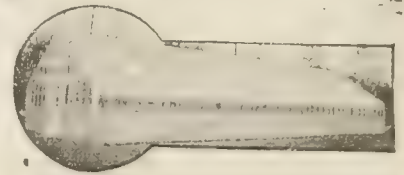
THE FOLEY GREENHOUSE MFG. CO.

3275 West 31st Street, - - - - - CHICAGO, ILL.

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GREENHOUSES

of every description



THE

Personnel

of all our departments assure you a

Service and Quality
unsurpassed

It will pay you to
PUT YOUR GREENHOUSE PROBLEMS UP TO US

We go anywhere in the U. S. to submit plans and prices.

Metropolitan Material Co.
PATENTED GREENHOUSES

1297-1325 Flushing Ave.,
Brooklyn, N. Y.

GULF CYPRESS

GREENHOUSE MATERIALS

HOTBED SASH
GLASS

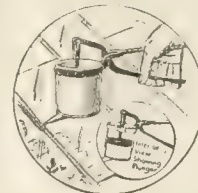
Pecky Cypress Bench Lumber



THE ONLY PERFECT

LIQUID PUTTY MACHINE

Will Last a Lifetime, \$1.25 each



"SEAL TIGHT
LIQUID PUTTY"
will not harden,
crack or peel off.
\$1.35 per gallon in
10 gallon lots.
\$1.40 per single
gallon.

Non-Kink Woven Hose

In any length (one piece)
with couplings, 14c. per foot.
Remnants 15 to 30 feet,
coupled, 10c. per linear foot.
Unequalled at the price.



Hose Valve—70c.



All brass except the hand wheel. Has a removable leather disk which is easily replaced to keep water-tight. Stuffing box prevents leaks at stem.

Metropolitan Material Co.
PATENTED GREENHOUSES

1297-1325 Flushing Ave., Brooklyn, N. Y.



Evans 20th Century Arm

Most up-to-date arm on the market. Proof that it is better than any other is that others tried to imitate it. Write for our 1916 catalog just out.

JOHN A. EVANS CO.
Richmond, Ind.

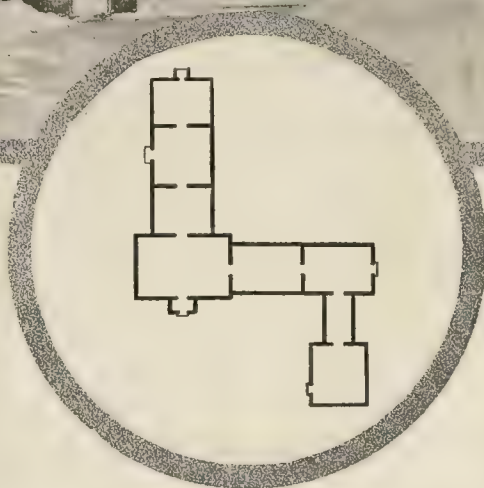


Erected for H. C. Dalton, Cleveland, Ohio.

M. H. Horvath, Landscape Architect.

The Dalton Range

Cleveland Ohio



FOR H. G. Dalton we last summer erected this range at Cleveland.

Adolph Stephan is the able gardener in charge.

The odd shape of the plan is due to certain landscape features that had to be considered.

It's what we call a Fit-in-Plan. It's the kind of plan that if you don't watch what and how you are planning, it will fit good enough into the landscape, but fit very badly into the needs of the gardener.

To make a Fit-In really fit all needs, it needs team work



Note that the gutter instead of being placed on top of the sill is at the bottom of the curve, and the sash hinged to it.

and half a century or so of know how.

By team work, we mean our heartily working with the gardener or superintendent.

By know how, we mean the things we have found out about greenhouses in our long years of planning and building them.

By combining the two, you secure a Fit-In that really does fit in.

Are you ready for the team work?

You know we go anywheres for business, or to talk business.

Hitchings and Company

NEW YORK
1170 Broadway

BOSTON
49 Federal Street

PHILADELPHIA
40 S. 15th Street

General Offices and Factory, Elizabeth, N. J.

Vol. XXV
No. 21
MAY 26
1917

HORTICULTURE



A Conservatory Annex to a City Flower Store

Published Every Saturday at 147 Summer Street, Boston, Mass.
Subscription \$1.00



Sim's Hybrid Yellow Polyanthus

(Giant English Primrose)

GOLD MEDAL AWARDED AT PHILADELPHIA

This is the best selling novelty in years. They make charming pot plants, and are indispensable for cutting. They bloom from December to May.

Stock is limited. Strong divisions for May delivery.

Prices: 100 \$7.50, 500 \$25.00, 1000 \$50.00

AURICULA PLANTS one year old in bud and bloom \$15.00 per 100.

WILLIAM SIM, CLIFTONDALE, MASS.

SANDERS' LIST OF ORCHID HYBRIDS

Complete with Addenda to January, 1917

CONCISE, RELIABLE and INDISPENSABLE to all who take an interest in Orchids, giving the names and parentage of all known Hybrid Orchids.

Price, including the Addenda, **\$5**

Apply to MR. WALTER GOTT, McAlpin Hotel, New York City, American Representative

OR DIRECT TO

SANDERS, ST. ALBANS, ENGLAND

ROBERT CRAIG CO.
ROSES, PALMS,
and Novelties in Decorative Plants.
MARKET and 49th STREETS, PHILADELPHIA, PA.

GARNATIONS
F. DORNER & SONS CO.
LA FAYETTE, IND.

A.N. Pierson, Inc.
CROMWELL, CONN.
Bedding Plants and Roses

CHARLES H. TOTTY
CHRYSANTHEMUMS
MADISON, N. J.

When writing to advertisers kindly mention HORTICULTURE.

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Choice Nursery Stock. Conifers, Roses, etc.

ORCHIDS, PALMS

Greenhouse Novelties of Merit

Awarded Gold Medal and Silver Medal at Boston Spring Show for Choice and Rare Orchids

Alpines and Hardy Habaceous Plants for the Border and ROCK GARDEN. Everything in Useful, Hardy and Tender Plants.

Send for Catalogue.

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NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toil, we ought to blame the culture, not the soil."—Pope.

Alocasias

These tropical plants can be increased either by cuttings of the rhizomes or by suckers. When doing either they are better when placed in small pots filled with a compost of peat and sand in equal parts. Pack the compost well and plunge where there is plenty of bottom heat. There is nothing better than a closed frame over bottom heat of about 75 degrees. Give plenty of overhead syringing and keep a night temperature of 70 to 75 degrees. In potting give plenty of drainage. Use very fibry loam and fibrous peat in equal parts, with quite a portion of sphagnum moss, some lumps of charcoal and silver sand. Give some shade all through the summer and keep the air in the house well supplied with moisture.

Dracaenas

Saw the canes into pieces containing one eye each and split each section down the middle. Every section split or unsplit forms a new plant. Place these in a compost of equal parts of loam, leaf mold and coarse sand and then sprinkle a layer of sand over all. Place in a propagating case and in a very short time, provided plenty of heat and water are given, they will show roots and growth. Leggy plants can be utilized by mossing the tops and using the canes. Cut the stem about half through just below the leaves and place something between to keep the cut open. Tie a small handful of wet moss around the cut and secure by a few twists of raffia. Keep the moss constantly wet and when white roots are seen pushing through, the stem may be severed beneath and the moss and roots buried to the lowest leaf in a well drained pot of soil. Place the young plants where they can have plenty of atmospheric moisture with three or four sprayings overhead on all bright days.

Forcing Lily of the Valley

After the middle of May lily of the valley can be grown in frames that are built good and close. For the next couple of weeks bottom heat will be necessary, but from that out they will do without it. Place about six inches of sand on the manure and in this plant the pips the same as one would in the frame in the greenhouse. It is a good plan to have the frame partitioned off, then one can plant two or more successive batches. Keep close and dark until they are well up and then give air and light so they will not become too leggy. When the bells are well out give shade with plenty of air.

Hardy Perennials

Where a batch of seeds of such subjects as delphiniums, aquilegias, Shasta daisies, lupines and other varieties were sown under glass in February and have been pricked off in flats, these will now be all right to set out in nursery rows, and any fall seedlings wintered in cold frames should also be set out. Many of these will flower nicely this season and all will make strong stock for planting in permanent beds in the fall. It is noticed that the number growing these hardy plants increases every year. From now until the first of July is a suitable time to sow hardy perennials outside in a seed bed. They need a piece of ground in a warm and sheltered spot. Make the soil rich, fine, soft and deep. After the beds have been generally levelled draw shallow rows across the surface 6 to 8 inches apart and here sow the seed, labeling each variety, and press the whole surface over moderately firm.

Primulas

It is always well to go over these plants at least three times a day to see if any may need water. Give them a nice spraying overhead once a day. As they grow they will want spacing to prevent crowding. It is always better to have the primula pots plunged. When this is done they will not dry out near so quickly as otherwise. As the weather becomes warmer you can raise both top and bottom of sash at least eight inches and keep the sashes shaded so the foliage will not burn. It pays to have the sashes all removed from about 3 o'clock in the afternoon until about 9 next morning when they can be put on again. Some growers use lath shading, except when they run into a rainy spell.

Reminders

Continue to propagate verbenas by cuttings. They should be kept cool and allowed plenty of air.

Take off euphorbia and poinsettia cuttings when small with a small heel of old bark as such cuttings make good plants.

Use the shears on any genistas, boronias, azaleas, or similar shrubby greenhouse plants and trim them into shape a little before they start their summer's growth.

Watch bedding plants carefully for water when they are taken from the greenhouse to the frames as they dry out very, very rapidly.

Where have you stored your freesia bulbs? They should not be dried right after the flowers are cut, but gradually until the foliage shows discoloration. Place in a cool, dry shed when quite dry and pick out the bulbs when opportunity offers.

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Boston's new park commissioner

The appointment of J. K. M. L. Farquhar to the important position of park commissioner of the city of Boston brings to the Park Department a man of proven business qualification, one with a rare practical knowledge of gardening in all its phases such as is possessed by but few, having also good executive ability and abundant forcefulness and courage to back up what he believes to be right. It is a recognition worthily bestowed and Mayor Curley merits commendation for the excellent judgment shown in this appointment. Boston will be well served by John Farquhar.

Memorial Day

Once again we welcome the coming of the most expressive floral holiday of the year; a day especially dedicated to the memory of those who fought and bled that the nation might live but with its beautiful sentiment amplified until the floral observance of the day now appropriately extends to thus honoring the memory of all kindred and friends, young or old, who have fought their battle of life and passed on.

Memorial Day, this year, however, assumes a new significance and added impressiveness, for our country has come to a great crisis and faces a task stupendous in size and import. Responding again to the spirit which animated the nation in times of trial in the past, the people will feel anew the thrill of patriotic fervor as they reverently place their floral offerings on the last resting place of vanished heroes.

Memorial Day is essentially a floral day. In spirit and purpose it is the florists' perpetual inheritance. Is he making the most of the opportunity and privilege which are so peculiarly his?

A one-sided bargain

The experience of Messrs. Roelker in the matter of Holland import orders last winter as set forth in the communications which appear on page 680 of this issue will prove very interesting reading, no doubt, for some of Mr. Roelker's companions in misfortune who have had to pay dearly for their education in the tactics of the Dutch traders and of the Holland-America Line in dealing with their consignees on this side of the water. About a year ago we took opportunity in our editorial notes to advise American importers that, for their own protection in the existing turmoil, they should insist upon contracts based upon delivery f. o. b. at destination. In the light of recent developments, those who did so can chuckle now. The Holland nurserymen take no chances. It is against their principles to take chances if the other fellow can be impressed into assuming all the risks, on the basis of "Heads I win, tails you lose." It will be observed that the freight charges to New York must be paid by the consignee although the goods never left Holland! As an example of a one-sided bargain that certainly "takes the cake."

Summing it up

Mothers' Day reports from leading florists in several of the larger cities received at this office too late for use in our last week's HORTICULTURE, all show more or less of an undercurrent of apprehension over the probable detrimental final effect on public opinion of the arbitrary advance in prices demanded on that day for such flowers as are especially called for, particularly white carnations. It seems that the notion that carnations have some peculiar significance and are the most appropriate flowers for the occasion still prevails to a considerable extent, unfortunately. The amount of business done in that particular flower appears to have been limited by the number available, whereas the rose market was but slightly affected as a rule although the general flower sales were in a majority of cases reported as having been larger than they would have been had no special import attached to the day. The smallness of the orders received for local or telegraph delivery is unfavorably commented upon by some as making the business trifling and unremunerative. The most satisfactory results appear to have been had in the middle west. The practice of "pickling" flowers seems to have been indulged in to a considerable extent and is vigorously condemned by the retail dealers.

CLUBS AND SOCIETIES

AMERICAN ROSE SOCIETY.

The date for the annual outdoor meeting of the American Rose Society in the National Rose Test Garden, (Arlington) Washington, D. C., has been deferred to June 4, (Monday) 1917.

PROGRAM

10 A. M.—Inspection of 2-acre National Rose Garden.

11 A. M.—Public Meeting. Chairman, S. S. Pennock, President American Rose Society.

Welcome.—Wm. F. Gude, National Representative S. A. F.

Address.—"The significance of the National Rose Test Garden," by J. Horace McFarland, President American Civic Association.

Response.—Hon. Carl Vrooman, Asst. Sec'y of Agriculture.

Other speakers expected are—Dr. E. M. Mills, President Syracuse Rose Society; David Fairchild, Department of Agriculture; Benjamin Hammond, Secretary American Rose Society; Dr. D. W. Shoemaker, Rep. Federation of Citizens Association of Washington, D. C.; Hon. Thomas S. Butler. (If his duties permit), Congressman from Pennsylvania. The above list is subject to change.

Those intending to attend will kindly notify, Wm. F. Gude, 1214 F. street, N. W. Washington, D. C., or Robert Pyle, Chairman Washington Rose Test Garden Committee, West Grove, Pennsylvania.

LANCASTER COUNTY FLORISTS' ASSOCIATION.

Thursday, May 17th, was another of our red letter days with Richard Vincent, Jr., as a visitor and his illustrated lecture on Dahlias in the evening.

President H. A. Schroyer, Secretary Frank L. Kohr and Albert M. Herr and Elmer Weaver from the common herd dined with Mr. Vincent at the Brunswick after which with the assistance of Mr. Dennis Connor he was escorted to the club rooms where some 40 members with their wives and a few friends were waiting to greet him.

In the regular business our attorney presented a report of the work he has accomplished so far and we are assured better service in every way from a local point of view but when it comes to long distance shipments there is only one source and that is the S. A. F. whom we certainly hope to see on the job this summer.

It was decided to hold the picnic at Hershey on June 21, a date that suits the country growers all right but as it is too near examinations, etc., for the city youngsters they are cut out.

Mr. Vincent's lecture was greatly enjoyed and in addition to the lecture proper he showed a lot of fine dahlia slides and explained them as he went along in his own inimitable style.

After the lecture one of our new members J. de Barry Heinitsh acted as caterer and served refreshments, this being followed by a general conversa-

Meetings Next Week

Monday, May 28.

Florists' and Gardeners' Club of Rhode Island, Swartz Hall, Providence, R. I.

Gardeners' and Florists' Club of Baltimore, Florist Exchange Hall, Baltimore, Md.

Friday, June 1.

North Shore Horticultural Society, Manchester, Mass.

North Shore Horticultural Society, Lake Forest, Ill.

Pasadena Horticultural Society, Pasadena, Calif.

Yonkers Horticultural Society, Yonkers, N. Y.

People's Park Cottage Gardeners' Association, Paterson, N. J.

Saturday, June 2.

Pacific Coast Horticultural Society, San Francisco, Calif.

tion that lasted until almost the hour of eleven. Mr. Vincent makes an ideal host and if the President of the Club had not started to turn out the lights I suppose some of the members would be there yet listening to his reminiscences and traveling experience.

ALBERT M. HERR.

MORRIS COUNTY (N. J.) GARDENERS' AND FLORISTS' SOCIETY.

The executive committee of the Morris County Gardeners' and Florists' Society met in special session in Morristown, N. J., last Friday evening to rearrange the schedule for the twenty-second annual flower show. It was decided to hold the show on Thursday and Friday, Nov. 1 and 2 next. The entire committee seemed to be imbued with the spirit of patriotism. There will be no money prizes or cups this year; just ribbons—red, white and blue. The entire proceeds of the show will go to the American Red Cross Society. The voice of the committee was as of one man—"Our Country First."

EDWARD REAGAN, SR.

FOR THE YOUTHFUL GARDENERS

Benjamin Hammond, president of the American Rose Society, has donated prizes to be awarded in the Children's Home Garden Brigade of Beacon, N. Y., as follows:—

For the boy and the girl who has the best garden in each ward, a bank book for \$1.00.

For the boy and girl who raises the best peck of potatoes, a bank book for \$1.00.

For the boy or girl who has the best showing of morning glories or other vine over fence or porch, a bank book for \$1.00.

For the boy and girl who has the best showing of roses, a bronze medal of the American Rose Society. There are to be not less than six bushes or climbers.

For the boy and girl who shows the handsomest front yard on the home block, a round trip ticket to Mount Beacon.

All who work in the brigade will receive certificates of merit. The judging to be done in September by a committee.

WESTCHESTER AND FAIRFIELD HORTICULTURAL SOCIETY.

The monthly meeting of the Westchester and Fairfield Horticultural Society was held in Hubbards Hall, Greenwich, Conn., on Friday evening, May 13. There were some fine exhibits and the judges made the following awards: Cultural certificates to Wm. Graham for *Calceolaria Stewartii*, and to James Linaine for *Calceolaria hybrid*. James Stuart very highly commended for *Calceolaria Stewartii* and *Calceolaria Babylonii*; honorable mention to Wm. Graham for carnations Princess Dagmar and to John Andrews for beans "Carters Surprise"; votes of thanks to Wm. Whitton for petunia and to P. W. Popp for *Calceolaria Medfordii*. The monthly 1st prize went to Wm. Graham, 2nd to James Linaine and 3rd to James Stuart.

Emil Bertolf gave a very interesting talk on "Rock Plants" which was enjoyed by all present. It was decided to hold the summer show at Rye.

ALEX CLARKSON.

CLUBS AND SOCIETY NOTES.

A lecture entitled "Agricultural Problems of the Present Time," was given by Mrs. Martha H. Miller, of Cornell University, under the auspices of the Mount Kisco Horticultural Society at Mt. Kisco, on May 25.

The Rochester Florist Association meeting was held at Musicians Hall, May 14. The Sunday closing bill now pending at Albany was discussed and finally laid upon the table for future reference. Ambrose Secker read a paper on the florist business during war time. Colvin T. Ogston reported upon vegetable gardening in Chicago as carried on by the school children.

PUBLICATIONS RECEIVED.

"The Culture of Garden Roses," by A. C. Beal, is a 28-page illustrated pamphlet published by the N. Y. State Board of Agriculture as a part of the Cornell Reading Course for the Farm. It gives in condensed form good practical information regarding outdoor roses and their care.

The Skinner Irrigation Company has established a New York selling office at 131 Hudson street, New York City, under the management of Charles H. Allender.

It is stated in the news columns of a Boston paper that W. F. Heath, a florist of Jaffrey, N. H., has found a double flowered trailing arbutus growing on his farm.

Obituary

David I. Saunders.

In the death on Friday last of David I. Saunders, Washington lost one of its pioneer florists and expert horticulturists, and the florists of the city with the family of the deceased are mourning his passing. Mr. Saunders, was born in New Haven, Conn., on January 16, 1849. He was the eldest son of the late William Saunders, who for many years was connected with the Department of Agriculture as superintendent of gardens and grounds. The deceased was engaged in the florist business for nearly half a century. The funeral took place from his late residence, 2203 Second street, Northwest, with burial in Rock Creek Cemetery. He is survived by his wife, four sons and a daughter. A brother and sister also survive him.

Thomas L. Lowden.

Thomas L. Lowden, 76, veteran florist and market gardener of Pittsfield, Mass., died at his home in that city Saturday morning, May 19. Mr. Lowden was born in Florida, Mass., April 26, 1841, and after living in North Adams for a few years moved to Pittsfield 57 years ago. He enlisted in Co. A, 61st Massachusetts regiment, and served in the civil war. For a time he was in the market gardening business at Pittsfield with his brother, Orin E. Lowden, and later went into the greenhouse business, which is still conducted by his sons under the name of Thomas L. Lowden & Sons. Mr. Lowden was twice married and leaves a widow, three sons, Harry L., Arthur S. and Thomas L., and two brothers, Orin E. and George, all of Pittsfield.

MEMORIAL DAY.

Wheel out the chair, Mirandy,
I hear the sound o' drums,
An' down the street beyond I know
The old procession comes;
Push me out next the curb, my dear,
Clean out upon the grass;
I want to see my comrades an'
Say "Howdy," as they pass.

There comes "Old Glory," bless her!
As proud an' fine today
As if there never was no blood
Spilled 'twixt the Blue and Gray.
That band is makin' music, eh?
But still I hanker, wife,
Fer one o' them old march tunes on
A plain old drum and fife.

Here comes the boys! Mirandy, see,
There's Rob, an' old Cap Lane,
A-marchin' straight and proud as if
They was recruits again.
An' there's ol' Ben McClure, by jing,
A-stumpin' past as though
He hadn't left his leg down South
Near fifty years ago.

They see me, wife, they're wavin' hands,
An' see 'em all salute
As if I was some high mogul—
A general, to boot.
Hooray, boys—hip, hooray, hooray!
If my old legs was new,
You bet I'd be out there in line
Again, old pards, with you.

The sun seems gittin' darker now—
The sky is turnin' gray—
The boys, the flags, the tootin' bands
All seems so fur away.
Come to me, wife—where are you, Kate?
Take hold my hand—I hear
A bugle soundin' "taps"—I guess—
Aye, Cap'n—I'm HERE!
—Author Unknown.



The rose here pictured is one of Dickson's 1917 novelties, which is to be disseminated in this country by Charles H. Totty, June 1st, this year.

It is described as a garden gem, deep Indian yellow in color and very fragrant, thoroughly perpetual, producing flowers continuously from spring until late fall.

DOGS AND THE HOME GARDEN.

A Winchester (Mass.) doctor illustrated in the town paper last week that a man can keep his temper and his good humor if he wishes even when dogs and cats are playing havoc with his beans and potatoes in his amateur garden. This is shown by the following notice printed in the Winchester Star last Friday:

CANINES' ATTENTION!

Editor of the Star:
Fearing possibly that some of the dogs in the neighborhood have not yet availed themselves of the chance to excavate or otherwise enjoy themselves in my flower and vegetable beds, I take this opportunity of extending an invitation to all those who have not yet participated, as now is the best time for their investigations, as the earth is soft and easily dislodged.

I would suggest, however, that they come in relays of six or seven, as the surface of the alleged cultivation is limited. A prize will be offered for the dog who can dig the largest hole and dislodge the most seeds and plants in the shortest time.

The contest is not limited to size or kind and is open to all varieties from the Window Washing to the Heinz of 57 varieties.

I hope that all owners of our canine friends who live on the west side of the town (I think it best to limit it) will see to it that this invitation is accepted and made the most of. A diagram of the general outlay and location can be obtained from any dog living within a radius of one mile of No. 3 Fletcher street.

Yours for the uplift of the soil.

WILLIAM S. OLMSTEAD,

—Boston Post.

PROTECTING THE PEONIES.

Editor HORTICULTURE:

I have been much interested in the clear, well written article on "The Hollow Stem Disease of Peonies, by Wm. Rollins of Boston. The illustrations make the case so clear that peony growers having stock infested with this disease, will be able to detect it at once. It has occurred to me that the methods of keeping stock free from disease are equally interesting and important. At Petersons' Nurseries, Chicago, the ounce of prevention is being applied constantly. As soon as the young plants are well out of the ground, any deviation in color costs that plant its life. It is assumed that off color is an indication of disease and the plant is destroyed in its infancy.

The next test comes when the plant is two years old and is equally drastic in its application. Assuming that a healthy peony plant will bloom, all that do not do so when two years old are pulled up and destroyed.

Any fungus detected upon the stems of peony plants is suspected of being Stem Blight and the plant is burned. All plants that are taken up for dividing have their foliage cut off and burned. At these nurseries Hollow Stem is as yet unknown, and no weed troubles are experienced, for it is a maxim here that no weed ever lives to be more than two weeks old. Rows are planted far enough apart, so the cultivator can be used both ways and all summer long, the ground has its fortnightly cultivation.

A READER.

New Britain, Conn.—This city expects to lead the country in municipal garden planting. At least 500 acres of ground will be put under cultivation.



PATRICK WELCH, President.

MEMORIAL DAY CARNATIONS

American Beauties, Ophelia, Russell,
Hadley, Sunburst, White and
Pink Killarneys

Darwin Tulips, Peonies, Spiraea Japonica, Stocks,
Narcissus Poeticus, Sweet Peas, Longiflorum
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CHICAGO FLORISTS' CLUB.

Editor, HORTICULTURE:

Dear Sir:—Enclosed find resolution adopted by the Chicago Florists' Club in the spirit of patriotism and civic duty.

I have just learned with sad regret that the Garden Bureau will cease its operation after the present week. I am very sorry indeed that this occurred, as this Committee had completed all plans to carry on this work, and our efforts therefore have been in vain.

The Garden Bureau will be discontinued for the reason that the proper financial aid has not been forthcoming, which is to be very much regretted indeed. This Bureau had already plowed between 7,000 and 8,000 acres in Cook County for Community Gardens, and nearly 60,000 people have been demanding the services of this Bureau.

I wish to express to the members of this Committee sincere appreciation of their hearty co-operation towards this movement and unless something of importance should turn up, the writer will ask our Club to dismiss this Committee at the next meeting.

CHICAGO FLORISTS' CLUB GARDEN
COMMITTEE.

By F. LAUTENSCHLAGER, Chairman.
Chicago, May 21, 1917.

Following is the resolution adopted by the Chicago Florists' Club on May 10, 1917:

BE IT RESOLVED, That the Chicago Florists' Club in the spirit of patriotism and civic duty, does hereby heartily endorse and encourage the furthering of the work

now being carried on under the name of the Garden Bureau of Chicago.

FURTHER, That this organization does hereby offer its assistance and co-operation, by pledging itself and its members to raise plants for garden products of such kind and in such quantity as may be practicable, and to donate the same to the public, to be distributed under the guidance and direction of the Committee which shall be by this organization thereunto appointed.

ST. LOUIS NATIVE FLORA IN DANGER.

The St. Louis Association of Gardeners at its regular meeting unanimously resolved to conserve the native flora of St. Louis and County. Our native flora, owing to indiscriminate collectors, is rapidly becoming in danger, especially in proximity of St. Louis. Picnic parties, etc., visiting the country for Sunday vacations, unfortunately become over-enthusiastic with native flowering plants, to such an extent, that they devastate the landscape of its beauty, with the idea of reproducing the effect in the city garden. In the majority of cases the amateur does not study the environmental factors, the result being a total loss.

The St. Louis Association of Gardeners, therefore, recommends to the people of St. Louis, that the woodland flowers should remain unmolested to their environments, allowing their beauty to be admired by all.

A copy of this resolution is being sent to all Garden Clubs, Horticultural Societies and Florists' Clubs of St. Louis.

G. H. PRING, Publicity Sec.

VISITORS' REGISTER.

Rochester, N. Y.—Mr. and Mrs. S. A. Anderson, Buffalo.

Cincinnati—Mr. and Mrs. Floyd Anderson, Xenia, Ohio.

Boston—W. A. Philippo, Holland; H. Langelier, New Dorp, L. I., N. Y.; J. J. Kearns, rep. H. A. Dreer, Phila.

Chicago — Ralph Anderson, Queen City Floral Co., Traverse City, Mich.; Thos. Heaven, Benton Harbor, Mich.; Alois P. Frey, Crown Point, Ind.; S. DeWood, Toledo, O.; M. Bittker, Detroit, Mich.; W. L. Peglow, with the Kaber Co., La Porte, Ind.; Dr. A. J. Evans, Evansville, Ind.; Chas. Graham, Cleveland, O.

Washington, D. C.—I. Rosnosky, Henry F. Michell Co., Phila., Pa.; Frank J. McCabe, A. L. Randall Co., Chicago, Ill.; George Maunz, Reed & Keller, New York; Mrs. W. T. Delaplaine, Sr., and Mrs. W. T. Delaplaine, Jr., Frederick, Md.; Mrs. K. W. Franke, University, Va.; Julius Dilloff, New York; Joseph J. Goudy, H. A. Dreer, Phila.; Pa.; M. V. Imlay, Zanesville, Ohio; E. J. Fancourt and Charles E. Meehan, S. S. Pennock-Meehan Co., Phila., Pa.; G. L. Bruffey, University, Va.

Lee Weitzman, with the Dallas Floral Co., and Miss Ruth Tise, of Denison, were married at Fort Worth, Tex., on May 12.



WEED KILLER

THE VERY NEWEST AND QUICKEST METHOD OF DESTROYING WEEDS, GRASS AND OTHER GROWTH IN GARDEN WALKS, GUTTERS, TENNIS COURTS, DRIVEWAYS, ETC.

This fluid absolutely destroys all weeds and other growth wherever applied, and its effect on the ground prevents the growth of fresh ones for a year and thus saves a great deal of time and labor, as no cutting, hoeing or hauling away of the weeds is required.

We manufacture the strongest line of DISINFECTANTS on the market.

CORRESPONDENCE SOLICITED

P.-L. CHEMICAL CO., 507-509 W. 19th St., New York

TO ERADICATE JUNE BUGS.

If the common brown May beetles, otherwise known as "June beetles" or "June bugs," are numerous this spring, it means a serious infestation of white grubs next season. The grubs, which do their damage by feeding upon the roots of grasses, corn, potatoes, strawberries and seedling trees, especially conifers, are the larvae of these May beetles. Most of them live in the ground for three seasons before they change into beetles, becoming larger as they mature. The entomologists of the United States Department of Agriculture prescribe these methods of eradicating this pest in each stage of its infestation.

When heavy flights of May beetles are noticed, spray trees with an arsen-

ical, such as Paris green or arsenate of lead, to poison beetles feeding thereon. Plow grass and small-grain land previous to October 1, to destroy young grubs recently hatched from eggs laid by May beetles.

When small grubs are abundant in the fall, pasture hogs. Plow thoroughly previous to October 1. Seed such land to small grain or clover for the following year. Do not plant corn or potatoes on such land the following season. Allow chickens the run of fields when plowed.

When small grubs are abundant in the spring, seed such land to small grain or clover. Do not plant corn or wide-row crop in such land. Put corn, potatoes, field beans, etc., on ground which has been cleanly cultivated the preceding year. Pasture hogs on infested ground and give chickens the run of fields when plowing and cultivating.

When large grubs are abundant in the fall or spring, plow infested land about October 1. Delay planting until the 15th or 20th of May, or a little later if practicable. Ground containing large grubs in spring should be plowed as soon after July 15 as practicable, as indicated below. Pasture hogs in infested fields wherever practicable.

When beetles or pupae are in the ground in summer, plow thoroughly so as to break clods, any time after July 15; the sooner after that date the better. Pasture hogs in infested fields.

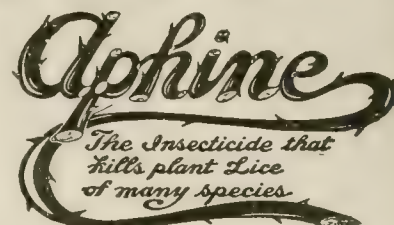
PLANTING BEFORE FERTILIZING.

A report from one of the large New England fertilizer houses indicates that the abnormal demand for fertilizers this spring is causing and will continue to cause serious delays in shipments. It is extremely advisable, therefore, that as far as possible the crops should be planted at the proper time whether or not the fertilizer is available; making application of the fertilizer after planting is necessary.

With active, soluble fertilizers which can be applied on the surface, fertilizing after planting is quite practicable. If the fertilizer is cultivated in, or scratched in with the weeder at the first weeding, the first rain will carry the soluble material down where it is needed and the usual satisfactory results should follow.

To put off planting because the fertilizer is not at hand is most decidedly a step in the wrong direction. The emergency method suggested is strongly recommended.

—Extension Service, Mass. Agri. Col.



The Recognized Standard Insecticide.

A spray remedy for green, black, white fly, thrips and soft scale.

Quart, \$1.00; Gallon, \$2.50.

FUNGINE

For mildew, rust and other blights affecting flowers, fruits and vegetables.

Quart, \$1.00; Gallon, \$3.50.

VERMINE

For eel worms, angle worms and other worms working in the soil.

Quart, \$1.00; Gallon, \$3.00.

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CONCENTRATED PULVERIZED MANURE

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The Florists' standard of uniform high quality for over ten years. Specify: **WIZARD BRAND** in your Supply House order, or write us direct for prices and freight rates.

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IMP. SOAP SPRAY

Quarts, 55c. Gallons, \$1.65
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Try with 24 parts water. Often effective weaker.

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Save your plants and trees. Just the thing for greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrips, Red Spider, Black and Green Fly, Mites, Ants, etc., without injury to plants and without odor. Used according to direction, our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pets. Excellent as a wash for dogs and other animals. Relieves mange. Dilute with water 30 to 50 parts.

½ Pint, 25c.; Pint, 40c.; Quart, 75c.; ½ Gallon, \$1.25; Gallon, \$2; 5 Gallon Can, \$9; 10 Gallon Can, \$17.50.

Directions on package.

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APHIS PUNK

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ST. LOUIS

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SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Kirby B. White, Detroit, Mich.; First Vice-President, F. W. Boigiano, Washington, D. C.; Second Vice-President, L. L. Olds, Madison, Wis.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.—Convention at Detroit, June 19, 1917.

American Seed Trade Association.

The Thirty-fifth annual convention of the American Seed Trade Association will take place on June 19, 20, 21, 1917 at Hotel Pontchartrain, Detroit, Mich.

PROGRAM

Opening Session, June 19, 10 o'clock A. M.

Tuesday—June 19, 10.00 A. M.—Open Session.

Address of Welcome—Wilber Brotherton. Response by member present who shows least approval of Mr. Brotherton's remarks.

President's Address.

Report of Committees.

Tuesday—2.00 P. M.—Open Session.

Address, "Voluntary Seed Control"—Hon. George H. Clark, Seed Commissioner, Dominion of Canada.

Address, "Disease Resistance in Plants"—Dr. L. R. Jones, Plant Pathologist, University of Wisconsin.

Tuesday—8.00 P. M.—Reception by the President and others.

Wednesday—June 20, 9.00 A. M.—Executive Session.

Reports of Committees.

Round table discussion, led by Mr. H. A. Johns. Topic—"Crop Stealing."

Wednesday—2.00 P. M.—Automobile Drive.

Guests will choose between a party going to the Ford Motor Works and the Packard plant, coming home via Belle Isle, and a party going to Belle Isle and Grosse Pointe, stopping on the return trip at the residence of Mr. D. M. Ferry, Jr.

Wednesday—6.30 P. M.—Boat ride and informal dinner, Steamer "Tashmoo."

Address by Dr. John Merle Coulter, Professor of Botany, University of Chicago.

Thursday—9.00 A. M.—Trip by trolley to Oakview Farm and Trial Grounds.

Thursday—5.00 P. M.—Executive Session.

The Hotel Pontchartrain has been selected for headquarters and if reservation has not already been made, members are urged to make it at once.

Notice is hereby given that an amendment to the By-Laws has been filed with the Secretary permitting change in date of holding the Annual Convention when necessary.

C. E. KENDEL, Sec'y.

California Onion Seed in Bermuda.

(Consul Carl R. Loop, Hamilton, Bermuda.)

In November, 1915, a trade letter was received at the Hamilton consulate from an onion-seed firm in California. This letter was brought to the attention of the Director of Agriculture of Bermuda, with the result that 2 pounds of seed were ordered at once by cable. These seeds were planted at the agri-

Lily Bulbs—Cold Storage

GIGANTEUM

	Per 100	Per Case	Per 1000
6/8 (400 to case).....	\$1.00	\$14.00	\$35.00
7/9 (300 to case).....	5.50	14.40	48.00
8/10 (225 to case).....	7.50	14.75	65.00
9/10 (200 to case).....	9.00	16.50	82.50

MELPOMENE MAGNIFICUM

	Per 100	Per Case	Per 1000
8/9 (200 to case).....	\$6.50	\$12.00	\$60.00
9/11 (125 to case).....	11.00	13.25	105.00
11/13 (100 to case).....	15.00	14.50	145.00
13/15 (60 to case).....	20.00	12.00	190.00

Arthur C. Boddington Co., Inc., 123 Chambers St., New York City

cultural station, with such satisfactory results that a local firm was induced to accept the agency in Bermuda for the sale of California onion seed. The Director of Agriculture states he anticipates that California will be the source toward which Bermuda will look in future for its supply of onion seed. The following statement is from the Bermuda Colonist and Daily News:

We have on exhibition in our office a number of onions grown from imported California seed. The bulbs are exceptionally fine in appearance, being good and solid with plenty of thickness in proportion to diameter, but the point that will interest the Bermuda farmer the most and possibly affect the future of the Bermuda onion industry is the fact that the seed germinates very rapidly and tests have shown 98 per cent. fertility. From the time of setting out the young plants to reaping the crop, the time elapsed was four days less than three months to produce onions about 7 ounces apiece. Local tests have shown that seeds come practically true to type, not 1 per cent. showing silver skins, and less than one-half of 1 per cent. showing any trace of red.

Narcissus Bulb Crop at Amoy.

Consul Clarence E. Gauss, reports that the Chinese narcissus bulb crop for this season is estimated at 3,000,000 pieces, of which about 1,000,000 will be of the quality and size usually exported to foreign markets. Exporters report that the prices demanded so far by the Chinese dealers have been high, owing to the abnormal freight rates and the adverse exchange rate. The export to the United States in 1916 amounted to 1,151,000 bulbs, valued at \$14,620.

New Sweet Peas of Merit.

Among the newer sweet peas that are finding favor among the retailers is Sterling Stent, an orange salmon of English origin. George D. Clark, the sweet pea expert at Dreer's, on being asked about it said "yes," its all right, but there are two newer ones that are still better, viz.: Robert Sydenham and Barbara. These two were the sensation in the recent big sweet pea shows in London and San Francisco. The advanced seed houses list Sydenham but we have not yet come across any offers of Barbara. Next year they will probably have stock enough of it to warrant listing.

Call for Buckwheat Seed.

The following letters have been received:

Dear Sir: We receive daily inquiries asking where navy beans and buckwheat seed can be bought. Our correspondents often state that they wish to plant from an acre

to 40 or 50 acres but they have been unable to secure seed. It is the policy of the Committee on Seed Stocks, appointed by the Secretary of Agriculture, to refer such inquiries to the seedsmen in their own territory, and we shall appreciate it if you will advise us by return mail whether you are in a position to meet your ordinary trade for these seeds, and, also, whether in addition to that you would be in a position to meet an unusual demand if it should arise. While we have information in regard to where large stocks of these seeds are held, this is commonly of no use to the farmers because the men holding the large stocks sell only at wholesale. Therefore, we want to get information as to where the retail buyer may secure his seed.

We desire to avoid referring buyers to firms who are out of stock or who do not handle these seeds and shall appreciate it if you will keep us informed as to whether you are no longer able to supply these seeds or have an unusually large stock.

We shall appreciate an early reply.

Very truly yours,

A. J. PIETERS,

Secretary, Com. on Seed Stocks, Dept. Agri.

Dear Sir: A number of requests have come in to the Food Supply Department of the Public Safety Committee for information in regard to Seed Buckwheat.

Will you not send me a statement in regard to the supply of available seed and at what price you are prepared to furnish it?

Very truly yours,

LOUIS N. ROBINSON,

Food Supply Department.

A little while ago it was spuds and sets they were hysterical about. Now it seems "brown-a-de-buck" is having an inning.

GEO. C. WATSON.

The seedsmen must certainly be the most atrocious villains. Peruse this one in the North American of Philadelphia, the oldest daily in America, founded by Benj. Franklin, a Boston boy of parts:

Assails Dealers in Seeds.

Sir: At this time when the government is making emphatic the necessity for planting every available piece of ground, is there no protection from unscrupulous dealers who advance seeds, etc., to a prohibitive price?

Are not such men more of a menace to our country than the enemy beyond our borders? Surely they are, and there should be some protection from them and punishment for them.

Philadelphia, May 14.

Awful, isn't it?

A movement is on foot to enlist the cooperation of the government to ensure the safe transportation of two or three vessels to bring Holland bulbs to this country. It is now understood that the German authorities will extend immunity provided such vessels do not call at a British port. It is earnestly hoped on behalf of horticulture in the United States that such an arrangement may be consummated.

LAST WINTER'S HOLLAND SHIPMENTS.

Through the courtesy of August Roelker & Sons of New York, we present in this issue the two following communications which were received by Messrs. Roelker from their Rotterdam forwarders, in reference to shipments of bulbs and plants by sundry Holland nurserymen and growers during the past spring. The bill of lading for the goods by S. S. Nieuw Amsterdam was dated January 31st, 1917, but as the letters show, the boat was recalled to Rotterdam and unloaded. The cargo was then transferred to the S. S. Maartensdyk, which again was ordered unloaded on March 29th, and then went forward in ballast to New York.

We know that quite a few of our readers suffered similarly to Messrs. Roelker in regard to their import orders this season, and the letters, of which copies are here given, may contain something of interest or value to other importers.

Dated Feb. 10, 1917. Received March 8, 1917. Re plant and bulb shipments to S. S. Nieuw Amsterdam of the 31 ult, as per enclosed specifications:
Gentlemen:

Referring to our various way bills re the above shipments we beg to inform you that on account of the increased dangers at sea since Germany declared the unlimited use of their submarines, S. S. Nieuw Amsterdam which left from here on the 31 ult, was called back and returned here on the 2d inst.

The Holland America Line decided to discharge the cargo but up till now the nursery stock has not yet come to hand and we hope this will be the case today.

The nursery stock shipments travel at the expense and risk of the ultimate consignees; however, you will understand that under the present circumstances it is impossible to obtain any instructions from the American importers and therefore everything will be done to protect their interests as much as possible. As far as the goods have been insured by us, we have notified the underwriters who reject all responsibility, but in case of damage we will have occasion to refer again to this matter.

As the severe frost which prevails here during the past four weeks caused interruption of the navigation in the canals, it was impossible to return the plants to the nurseries and to protect the interests of consigners the Holland America Line submitted a proposal to the nurserymen in which it was stated that they were prepared to tranship the stock from the Nieuw Amsterdam into the cargo steamer Maartensdyk indifferently if the steamer would be in a position at a later date to carry the traffic to New York or not. This without any guarantee, however, and on the understanding that the shippers should release the Holland America Line also in the name of holders of the B/L and all other parties interested, of all responsibility.

As under the present circumstances it was impossible to obtain any instructions from the American owners of the goods, the nurserymen availed themselves of this proposal also to prevent the goods from the risk of frost to which they would have been exposed when discovered on the quay. As far as the goods have been insured by senders, we have notified underwriters who confirmed that they had no objection against the transshipment of the goods without prejudice, however, of their responsibility in case of damage beyond the conditions of the policy.

We hope that our Government will be able to make such arrangements with the authorities of the nations at war, that the neutral steamers can move between neutral countries without further difficulties.

As soon as things develop further we will not fail to let you know.

Dated April 18, 1917. Received May 5, 1917.
Gentlemen:

Confirming our previous communication relative to nursery stock shipments originally on board of S. S. Nieuw Amsterdam and transhipped later on in S. S. Maartensdyk, we beg to say that also S. S. Maartensdyk had to be unloaded here, and



MICHELL'S NEW CROP Pansy Seed

Michell's Giant Exhibition Mixed. A giant strain, which for size of bloom, heavy texture and varied colors and shades cannot be surpassed. Half trade pkt. 30c.; 50c. per trade pkt.; 1/8 oz. \$1.00; \$6.00 per oz.

Giant Trimardeau Mixed. Large flowering and choice colors. Trade pkt. 30c.; \$1.25 per oz.

Also Giant Prize and Regular sorts in separate colors.

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\$2.50 per 25 lbs.; per 100 lbs. \$9.00; case lots (about 300 lbs.) at 8 1/2c. per lb.

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A most complete stock of Seasonable Seeds.

FOR THE FLORISTS
For immediate use or future delivery. Ask for quotations.

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Pulverized Sheep or Cattle Manure. Clay's. Thompson's. Dried Blood.

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Insecticides, Spraying Implements, Small Tools, etc.

YOU ought to have our retail and Florists' Special List. If you have not, write for one.

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Faneuil Hall Square

"Seeds with a Lineage" All Varieties
Thoroughly tested at our trial grounds, Raynes Park, London, England. Send for Catalogue
CARTERS TESTED SEEDS, Inc., 166 Chamber of Commerce Bldg., Boston, Mass.

there being no prospects for any Dutch steamer with cargo of proceeding safely to the U. S. A. unless calling at an English port, which implies on the other hand the risk of being almost certainly torpedoed by German submarines, we acquainted the senders and the underwriters of the above.

The majority of the inland shippers pretend that all nursery stock travels at consignee's risk and expense and therefore we did not up till now receive instructions how to act. We hope that the nurserymen will come to some understanding.

The Holland America Line will deliver the nursery stock against payment of the steamer loading dues and the ocean freight of the Nieuw Amsterdam and besides this against payment of the charge for loading and discharging S. S. Maartensdyk, amounting to fl. 3.—per 1000 Ko. or fl. 2.50 per freight ton in ship's option. When these conditions have been complied with the Holland America Line will hand a delivery order on which the goods can be collected and returned to the nurserymen, who will then have to get any damage or loss surveyed by an expert appointed by the underwriters. Should senders undertake any action in the matter this certainly is done on your behalf and for your account and risk.

The B/L having been mailed from here it will be necessary that all Bs/L are returned to us here to which please attend at once.

Any charges due on the Nieuw Amsterdam/ Maartensdyk shipments have to be collected from consignees and we request you to attend to this at once, collecting the disbursements as per our way bills plus disbursements for extra marine insurance premium, and various outlays as per specifications sent you, fully explaining the situation to consignees, who are liable for

these outlays as the goods travel for their account and risk. Of any collections please acquaint us by two different mails.

As soon as we hear something more definite we will report you further.

CATALOGUES RECEIVED.

Carmichael Orchards, Shannock, R. I.—Price List of Gladioli and Peonies for 1917. A very neat little catalogue.

Rynveld Brothers, Lisse, Holland.—Wholesale Catalogue of Darwin, May-Flowering, Breeder and Rembrandt Tulips. Darwin tulips are the great specialty of this house and the list is a good one. Illustrated.

PIN MONEY MUSHROOM SPAWN

8 lb. for \$1.00

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Dwarf Double Pearl Tuberoses

Special prices on application.

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Write for Special Prices, Spot or
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**Careful Seed Growers For
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ORDER NOW

ASPARAGUS PLUMOSUS NANUS SEED, greenhouse grown, \$3.50 per 1000, \$15.00 per 5000, \$27.50 per 10,000; Lath-house grown Seed, \$2.00 per 1000, \$9.00 per 5000, \$17.50 per 10,000. Asparagus Sprengeri Seed, 75c per 1000, \$3.00 per 5000.

S. S. SKIDELSKY & CO.

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My **WINTER-ORCHID-FLOWERING SWEET PEA SEED** have again received the highest honors by the New York and St. Louis flower shows. Over 8000 commercial growers are more than satisfied. If you are not already our customer, send your address and we will mail you our new price list in May or June. It will contain many splendid Novelties.

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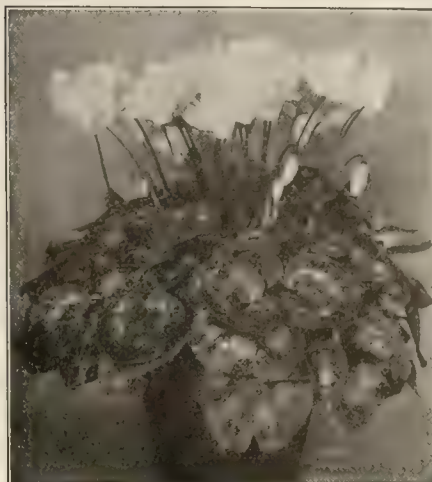
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LILIUM GIGANTEUM

NEW CROP NOW READY.

	Per 100	Per 1000
7 to 9 in. (300 bulbs to case)...	\$5.50	\$50.00
8 to 9 in. (250 bulbs to case)...	7.00	65.00
8 to 10 in. (225 bulbs to case)...	9.00	80.00
9 to 10 in. (200 bulbs to case)...	10.00	95.00

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**BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
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8/11, 225 to a case.....	\$80.00 per 1000
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8/10, 200 to a case.....	\$80.00 per 1000
9/10, 180 to a case.....	90.00 per 1000
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**BET, CARROT, PARSNIP, RADISH and
GARDEN PEA SEED** in variety; also other
items of the short crop of this past season,
as well as a full line of Garden Seeds, will
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Deliver orders from any part of the country to

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Of Interest to Retail Florists

A CONSERVATORY ANNEX.

Our cover illustration this week shows an interior view of the conservatory annex as seen from the new flower store of W. J. Palmer & Son of Buffalo, N. Y., which was illustrated in our issue of last week. We give special prominence to this new establishment as it seems to us to typify the ideal city flower store, in architecture, arrangement and artistic adornment. Floral establishments of this character do very much to elevate and dignify the florist business in the public estimation and are indisputable evidence of stability and progress.

PENN LOGIC.

Accompanying cheques received by mail from Penn the Florist, Boston, comes a card bearing the following characteristic logic.

This Cheque is Yours.

Without CUSTOMERS,—there would be no PENN—the Florist.

Without PENN—the Florist,—you would not have this cheque.

With YOUR boosting,—we will have more customers.

With MORE customers,—YOUR cheque will increase.

Let's Pull Together.

NEW FLOWER STORES.

Gallipolis, O.—Mrs. E. Morgan.

Camden, N. J.—Charles I. Kent, Jr.

Providence, R. I.—Frederick Cole, 95 Snow street.

Bellingham, Wash.—Lynden Nurseries, branch store.

Newport News, Va.—Mrs. Lizzie McPherson, 623 25th street.

Yonkers, N. Y.—New York Floral Co., North Broadway and Dock street.

Chicago — Aug. Martens, 243 W. North Ave.

Chicago—The Manusas Flower Shop, 3200 W. 12th St.; Peter Mechales, manager.

NEWS NOTES.

Madison, N. J.—Anthony Ruzicka, formerly of Rowayton, Ct., has leased the Villa Lorraine Greenhouses.

Springfield, Mass.—Charles M. Fuller and Miss Margaret J. Cochrane were married in Granby on Tuesday, May 15. Mr. Fuller is head clerk in the flower store of L. D. Robinson, Springfield.

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Modern Flower Shop for
Artistic and Special Work

N. E. Corner of Taylor and Olive

ST. LOUIS, MO.

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JOHN BREITMEYER'S SONS

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Artistic Designs . . .
High Grade Cut Blooms

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Reliable Service.

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Flowers of Every Kind in Season

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ANDERSON service means fresh, sturdy
Stock and prompt deliveries in BUFFALO,
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Randall's Flower Shop
HARRY L. RANDALL, Proprietor.
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Flowers by Telegraph

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
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Albany, N. Y.—The Rosery, 23 Steuben St.
Boston—Thos. F. Galvin, 1 Park St.
Boston—Penn the Florist, 124 Tremont St.
Boston—Zinn The Florist, 4 Park St.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Cleveland, O.—Adam Graham & Sons, 5523 Euclid Ave.
Cleveland, O.—Knoble Bros., 1836 W. 25th St.
Cleveland, O.—The Smith & Fetters Co., 735 Euclid Ave.
Denver, Col.—Park Floral Co., 1843 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Ave.
Houston, Tex.—Kerr, The Florist.
Kansas City, Mo.—Samuel Murray, 1017 Grand Ave.
Los Angeles, Calif.—Howard & Smith, 853 So. Olive St.
New London, Conn.—Reuter's.
New York—J. H. Small & Sons, 505 Madison Ave., at 52d St.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 611 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—A. T. Bunyard, 413 Madison Ave., at 48th St.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Max Schilling, 22 W. 59th St.
New York—G. E. M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.
St. Louis, Mo.—F. H. Weber's, N. E. corner of Taylor and Olive Sts.
St. Paul, Minn.—Holm & Olson, Inc.
Tarrytown-on-Hudson, N. Y.—F. R. Pier-son Co.
Toronto, Can.—J. H. Dunlop, 8-10 West Adelaide St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—George H. Cooke, Connecticut Ave. and L St.
Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop, 22 Pearl St.

Send Telegraph, Telephone or Mail orders
for florist service in this vicinity to

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853 SO. OLIVE ST.
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Every Order sure to receive
prompt and careful attention.

ZINN The Florist
For Quality and Promptness
4 PARK ST. - - BOSTON

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New London and Norwich, Conn.
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Delivered on mail or telegraph order for
any occasion, in any part of the Dominion.
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8-10 West Adelaide St. - TORONTO, ONT.
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EYRES
Flowers or Design Work
DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER
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The largest cut flower store in America.
Orders for the TWIN CITIES and for all
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Also an attractive line of Wreaths.

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**ROSES, CARNATIONS,
SPIREAS, PEONIES,
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OF BEST QUALITY**

Other Seasonable Flowers at Right Prices
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Telephones, Fort Hill 1083 and 1084

NEWS ITEMS FROM EVERYWHERE

BOSTON.

The Metropolitan Park Commission have plowed the park land in the Neponset river reservation at Mattapan for the benefit of the residents in that section.

Thomas F. Galvin has sent in his resignation as a member of the Park and Recreation Board, because of pressure of business, and the mayor has appointed J. K. M. L. Farquhar to succeed Mr. Galvin. The selection of Mr. Farquhar for this important duty meets with widespread approval on all sides and the daily newspapers have without exception spoken appreciatively of the mayor's action. The other members of the board are John H. Dillon, chairman, and Robert S. Peabody, landscape architect. The chairman is the only salaried member.

The crowning glory of the spring gardens in this section for this year has been the magnolias. Never before, as our memory goes, have they been so profuse in flower and the blooms so perfect. The forsythias and also Japan cherries have also given evidence that the weather conditions of the past year have been ideal for their highest de-

velopment. It is not so with some other things however, for the hawthorns and pyruses so far as we have seen will be sparse of bloom, and the cornuses and wisterias show many winter-blasted



J. K. M. L. FARQUHAR.

buds. Lilacs, as they are at present are about eight or ten days late in flowering and they appear to be much below the average in quantity of bloom. Some rhododendrons seem rather shy on number of flower buds as compared with the past two years, but winter damage to foliage is very slight.

Operations have been under way for some time at the Wentworth Institute grounds on Huntington avenue, in preparation for the very ambitious outdoor horticultural exhibition which is to be conducted there during the first two weeks of June under the auspices of the Massachusetts Horticultural Society. The show will occupy a space of three acres, and the most notable private estates and commercial floral establishments in this section will be represented, as well as some prominent growers from a distance. Rhododendrons, azaleas, orchids and other special classes will be shown under huge tents in a magnificence never before touched in this country and there will be rock gardens and other artistic gardening effects in the open in which no effort or expense will be spared. It is stated that the cost of the setting for this show will approximate \$25,000.

The grounds and exhibits will not

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SEND YOUR FLOWERS to the newest and best equipped wholesale commission store in New York open for business now at new address

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I Mean Business. I have now all the facilities to receive and dispose of MORE FLOWERS than in the past. Write or call and TALK IT OVER.

HERMAN WEISS

Memorial Day Deliveries Boston and New York

We are prepared to deliver in good shape, flowers, plants or made up work as ordered. Florists at a distance may transfer their orders by mail, telegram or 'phone to us with a certainty of prompt and careful attention.

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Conservatories, Boylston St., cor. Fairfield St.. Tel. Back Bay 2023
NEW YORK, 561 Fifth Avenue, Vanderbilt Building

be formally turned over to the society until June 2. On the previous day the exhibit will be given over to the Massachusetts Chapter of the Red Cross Society, which will charge a \$5 admission fee. The show will be open from 10 o'clock in the forenoon until dusk each day. There will be concerts by the Mainnente orchestra.

PHILADELPHIA.

George W. Kerr of Burpee's is on a crop inspection trip to California.

Douglas Laird, late of Dreer's and Thorburn's, is now with the Robert Buist Co.

A. B. Cartledge has been laid up for the past month with a nervous breakdown but is now much improved and is back on duty again at 1514 Chestnut street.

Frank Adelberger is still at the Presbyterian Hospital but is much more comfortable and the doctors have decided not to make any surgical operation at this time.

H. Bayersdorfer & Co., report that they are working day and night to get their Memorial Day orders filled and therefore cannot accept any more orders for that occasion this year.

The judges appointed for the Eighth Annual Lansdowne Spring Flower Show, June 9th, are Mrs. Du Best, H. F. Michell, Casper Pennock, Rowland T. Satterthwaite, J. Otto Thilow and George C. Thomas, Jr. Admission free. It will be a fine show. Don't miss it. We have over 200 members which is pretty good for a little burg of 5000.

PITTSBURGH.

Augustus Wintz, an attache of the Pittsburgh Cut Flower Co., is laid up in one of the local hospitals.

James Riley, who has been a salesman for the McCallum Co., has accepted a similar position with the A. L. Randall Co. of Chicago.

"Jack" Bysouth, who for some time has been in Braddock on the estate of one of the officials of the Carnegie Steel Co., has resigned to go to France with the U. S. Engineering Corps.

Arthur James, formerly engaged in the growing of decorative plants on the Greensburg Pike, Turtle Creek, is about to leave for Oneca, Florida, where he will specialize in growing decorative asparagus.

Earnest R. Bolton has resigned as secretary for the Horticultural Society of Western Penna. He will be succeeded by Thomas Carr, who has also succeeded him as first assistant on the Heinz estate "Greenlawn." Mr. Carr, who was recently married, came to Pittsburgh from Cleveland and has gone to housekeeping on the Heinz place.

WASHINGTON, D. C.

L. W. Kephart, scientific assistant in the Bureau of Plant Industry has left for New England points to engage in experimental work in connection with the spread of the white pine blister rust.

The Florists' Club of Washington is planning for a round-up meeting June 5. The program for the evening has not yet been selected but President R. L. Jenkins is planning for something good.

Alden A. Potter, an assistant pathologist in the Bureau of Plant Industry, has gone to Manhattan, Kansas, and Chicago, Ill., for the purpose of holding consultations with experts in those cities concerning a new system of seed treatment.

The American Florists and Z. D. Blackstone are among the several hundred merchants that have joined the Chamber of Commerce in a round-up campaign to enlist all of the merchants in a Greater Washington movement. William F. Gude, recently entertained the members of the membership committee at a luncheon at a downtown hotel.



H. BAYERSDORFER & CO.

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1129 Arch St. PHILADELPHIA, PA.

A Full Line of Bridal Accessories for the June Wedding Decorations

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BEAUTIES

as we can furnish you give satisfaction
and at our price is profitable stock
for you to handle.

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of the product of the best
growers

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these Wholesale Flower Pages

The Advertisers Represented Here are the Leading
Concerns in the Wholesale Flower Trade

EDWARD REID WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.

CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

Philadelphia Wholesale Florist Exchange

ROSES OUR SPECIALTY

A trial order will convince you
1615 Ranstead St., PHILADELPHIA, PA.

Wired Toothpicks

Manufactured by

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WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON May 24	ST. LOUIS May 21	PHILA. May 21
Roses			
Am. Beauty, Special...	15.00 to 25.00	..... to 25.00	20.00 to 25.00
" " Fancy and Extra...	10.00 to 15.00	15.00 to 20.00	10.00 to 15.00
" " No. 1 and culls...	3.00 to 10.00	5.00 to 10.00	3.00 to 8.00
Russell, Euler, Mock...	2.00 to 12.00	5.00 to 10.00	3.00 to 15.00
Hadley...	2.00 to 18.00	5.00 to 10.00	3.00 to 10.00
Arenberg, Hoosier Beauty...	1.00 to 6.00	..... to 5.00	3.00 to 10.00
Ward...	1.00 to 6.00	2.00 to 4.00	2.00 to 6.00
Killarney, Radiance, Taft...	1.00 to 6.00	1.00 to 3.00	1.00 to 8.00
Ophelia, Sunburst, Hillingdon...	1.00 to 8.00	2.00 to 4.00	2.00 to 10.00
Key...	1.00 to 6.00	..... to 3.00	3.00 to 10.00
Carnations	1.00 to 3.00	1.00 to 2.00	1.00 to 4.00
Cattleyas	30.00 to 75.00	..... to 50.00	35.00 to 60.00
Dendrobium formosum	..... to 50.00	..... to 50.00	..... to 50.00
Lilies, Longiflorum	4.00 to 8.00	..... to 10.00	6.00 to 8.00
Lilies, Speciosum	..... to 8.00	..... to 10.00	..... to 10.00
Callas	4.00 to 8.00	10.00 to 10.00	8.00 to 10.00
Lily of the Valley	4.00 to 6.00	..... to 4.00	1.00 to 6.00
Snopdragon	3.00 to 6.00	4.00 to 10.00	2.00 to 10.00
Daffodils	.50 to 1.00	2.00 to 3.00	2.00 to 3.00
Narcissi, Paper White	..... to 1.00	..... to 1.00	..... to 1.00
Roman Hyacinths	..... to 1.00	..... to 1.00	..... to 1.00
Freesia	..... to 1.00	..... to 1.00	..... to 1.00
Tulips	1.00 to 2.00	3.00 to 5.00	2.00 to 3.00
Calendulas	1.00 to 2.00	..... to 1.00	1.00 to 3.00
Sweet Peas	.25 to .50	.20 to .40	.40 to 1.00
Violets	..... to 1.00	..... to 1.00	..... to 1.00
Marguerites	1.00 to 2.00	1.00 to 2.00	.50 to 2.00
Gardenias	2.00 to 20.00	..... to 1.00	3.00 to 15.00
Adiantum	.50 to 1.00	..... to 1.00	.75 to 1.50
Smilax	12.00 to 20.00	12.50 to 15.00	25.00 to 30.00
Asparagus Plumosus, & Spreng. (100 Bchs.)	25.00 to 35.00	25.00 to 35.00	25.00 to 50.00

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ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER of

CUT FLOWERS

Flower Market Reports

BOSTON With the exception of a little activity on Monday, the flower market is in a decidedly moribund condition this week. There are quantities of roses, carnations, sweet peas, Spanish irises, lilies, pansies, daffodils, baby gladioli, etc., etc., and the quality as a rule leaves nothing to be desired but buyers are very few and far between, the only noticeable movement being in the line of magnolia wreaths and artificial material for Memorial Day use in the places which make a commodity of such things. Some grand gladioli of the large flowering type are coming in. They have brought good prices thus far but not enough for the grower to get wealthy on, when the time and space they occupy in the greenhouse and the expense of getting to market in perfect condition are taken into consideration. Opinions and predictions as to supply and demand for Memorial Day vary considerably. Should the weather continue as it has averaged up to the present time florists' indoor material will have practical control of the situation.

A natural reaction has **CHICAGO** come to the Chicago market, following the week of Mothers' Day, with its immense volume of business. People do not buy flowers every day and when so many are bought for an occasion, no matter what it is, there will be less demand just after. Reports are now in from the surrounding country and confirm last week's impression that the small cities and towns did a big business and could have done more had the stock been forthcoming. The opinion seems unanimous that one more big holiday has been added and one that has come to stay if rightly handled. A wave of mid-summer heat swept the middle west and tended strongly to increase stock and in some proportion decrease the number of week-end customers, till no one of the wholesalers could possibly move the accumulation of cut flowers. Some of the largest single sales of the season were recorded on Saturday when carnations wavered between buyers at \$5.00 per 1,000 and the waste barrel. One reports having moved 35,000 in this way. A cold wave has followed accompanied by rain but tables and ice boxes are still filled. Peonies are coming regularly now and demand is fair considering the quantity of other flowers, prices ranging from four to ten cents.

The early part of **CINCINNATI** this week the market was glutted with stock. Business was very slow while receipts were very heavy. Shipping business has been fair. Roses and carnations are in an oversupply. More lilies are coming in than can be used. Callas are fairly plentiful and so are



BEAUTIES

Splendid deep rich colored buds at very attractive prices in any quantity, all lengths.

	Doz.	100
Special	\$3.00	\$20.00
Fancy	2.50	17.50
Extra	2.00	12.00
First	1.50	10.00
Second	1.25	8.00
Short		5.00

S. S. Pennock-Meehan Co.

THE Wholesale Florists of **PHILADELPHIA**

NEW YORK **PHILADELPHIA**
117 W. 28th St. 1608-1620 Ludlow St.

BALTIMORE **WASHINGTON**
Franklin & St. Paul Sts. 1216 H St., N. W.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI May 21		CHICAGO May 21		BUFFALO May 21		PITTSBURG May 15	
Roses								
Am. Beauty, Special.....	35.00	to 40.00	35.00	to 40.00	20.00	to 25.00	20.00	to 25.00
" " Fancy and Extra.....	20.00	to 30.00	20.00	to 35.00	15.00	to 20.00	12.00	to 15.00
" " No. 1 and culls.....	9.00	to 15.00	4.00	to 10.00	3.00	to 8.00	6.00	to 10.00
Russell, Euler, Mock.....	6.00	to 15.00	3.00	to 20.00	3.00	to 12.00	8.00	to 15.00
Hadley.....	6.00	to 15.00	.....	to 5.00	5.00	to 8.00	.....	to 8.00
Arenberg, Hoosier Beauty.....	5.00	to 12.00	3.00	to 10.00	4.00	to 10.00	6.00	to 12.00
Ward.....	4.00	to 8.00	3.00	to 10.00	3.00	to 5.00	6.00	to 12.00
Killarney, Radiance, Taft.....	4.00	to 10.00	3.00	to 8.00	2.00	to 0.00	4.00	to 10.00
Opheia, Sunburst, Hillingdon.....	0.00	to 12.00	3.00	to 10.00	3.00	to 8.00	6.00	to 12.00
Key.....	.....	to 6.00	.....	to 3.00	2.00	to 3.00	2.00	to 3.00
Carnations	4.00	to 75.00	10.00	to 75.00	40.00	to 50.00	50.00	to 75.00
Cattleyas.....	.....	to 10.00	.....	to 10.00	.....	to 10.00	.....	to 10.00
Dendrobium formosum	10.00	to 12.50	10.00	to 12.00	5.00	to 10.00	10.00	to 12.00
Lilies, Longiflorum.....	.....	to 10.00	.....	to 10.00	.....	to 5.00	.....	to 10.00
Lilies, Speciosum	8.00	to 10.00	8.00	to 12.00	8.00	to 10.00	.....	to 10.00
Callas.....	.....	to 6.00	3.00	to 5.00	6.00	to 7.00	6.00	to 8.00
Lily of the Valley	6.00	to 12.50	4.00	to 6.00	4.00	to 6.00	6.00	to 8.00
Sweet Peas	2.00	to 3.00	.....	to 2.00	1.00	to 2.00	1.00	to 2.00
Narcissi Paper White.....	.....	to 1.00	.....	to 1.00	.....	to 1.00	.....	to 1.00
Roman Hyacinths.....	.....	to 1.00	.....	to 1.00	.....	to 1.00	.....	to 1.00
Freesia.....	.....	to 1.00	.....	to 1.00	.....	to 1.00	.....	to 1.00
Tulips	3.00	to 4.00	2.00	to 3.00	1.00	to 2.00	3.00	to 4.00
Calendulas	2.00	to 3.00	1.00	to 2.00	2.00	to 3.00	2.00	to 4.00
Sweet Peas	50	to 1.00	.....	to 1.50	50	to 1.25	50	to 1.50
Violets.....	.....	to 1.00	.....	to 1.00	.....	to 1.00	.....	to 1.00
Marguerites.....	.....	to 1.00	50	to 1.00	1.00	to 1.50	1.00	to 2.00
Gardenias	15.00	to 20.00	.....	to 0.00	.....	to 1.00	.....	to 1.00
Adiantum.....	.....	to 1.00	.....	to 1.00	50	to 1.00	1.00	to 1.25
Smilax.....	.....	to 15.00	18.00	to 25.00	15.00	to 20.00	15.00	to 20.00
Asparagus Plu. & Spreng. (100 Bbs.)	25.00	to 50.00	25.00	to 50.00	25.00	to 35.00	40.00	to 60.00

peonies. Some excellent gladioli from local florists are added to the supply from the South. Sweet peas are plentiful and generally are of a high quality.

NEW YORK Plenty of stock and no stability of prices is the situation in the wholesale market this week. The outlook for Memorial Day is past human finding out. If the present condition of the market is any indication it will

be "a frost." There are some peonies from southern parts in this market but so far they find no welcome. Sweet peas are a burden at any price. In fact, there is nothing that can be mentioned as having any right of way in the market. It is unprofitable and unpromising for the man who makes the goods and equally so far for the man who tries to find a market for them.

(Continued on page 688)



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Laurel, Hemlock, all Decorative Evergreens.
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We have 22 years' experience behind us

FANCY GRADE ORCHIDS, SEPTEMBER MORN, AMERICAN BEAUTY, PRIMA
DONNA AND ALL OTHER ROSES, LILIES, CARNATIONS, VIOLETS,
ASPARAGUS AND SMILAX and all other Seasonable Flowers.

GUTTMAN & RAYNOR, Inc., Wholesale Florists

Phones: Farragut 558, 2036 and 2037

101 West 28th Street, NEW YORK

NEW YORK QUOTATIONS PER 100. To Dealers Only**ROSES AND CARNATIONS**

	Last Half of Week ending May 19 1917		First Half of Week beginning May 21 1917	
American Beauty, Special	25.00	to 30.00	20.00	to 25.00
" " Fancy and Extra	15.00	to 20.00	12.00	to 15.00
" " No. 1 and culls	4.00	to 8.00	3.00	to 6.00
Russell, Euler, Mock	1.00	to 12.00	1.00	to 10.00
Hadley	3.00	to 40.00	2.00	to 40.00
Arenberg, Hoosier Beauty	1.00	to 8.00	.50	to 6.00
Ward	1.00	to 8.00	.50	to 6.00
Killarney, Radiance, Taft	1.00	to 8.00	.50	to 6.00
Ophelia, Sunburst, Hillingdon	1.00	to 8.00	.50	to 6.00
Key	1.00	to 8.00	.50	to 6.00
Carnations	3.00	to 10.00	.50	to 8.50

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Consignments Solicited

WALTER R. SIEBRECHT CO.

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Wholesale Commission Florists

Orchids, Gardenias and Many Unusual
Flowers of Quality

114 West 28th Street

NEW YORK

**HENRY M. ROBINSON CO. OF NEW YORK
WHOLESALE FLORISTS**

55-57 West 26th Street

Telephones, 13—3510 Madison Square

Consignments Solicited

MAURICE L. GLASS, Treasurer

Flower Market Reports

(Continued from page 687)

PHILADELPHIA Last week was lilac week, which being interpreted means that all the thrifty farmers for fifty miles around brought in their outdoor flowers such as "lylocks" and sold them to the retailers for what they could get. So Mr. Retailer could make a good store display for small outlay and when Mr. Rose and Carnation Grower came along with his expensive stock he had to be quite suave and gentle. That's his middle name—when it's necessary. For honesty, forbearance and intelligence the commercial flower grower is renowned the world over. But notwithstanding all that it was a pretty fair week—quite as good as could be expected for this time of year. The rose crop is unusually heavy, especially in Beauties and Russells. Prices have receded a bit on these but other standard sorts like Killarney, Ophelia and Shawyer hold their own pretty well. Carnations continue of fine quality and clean up well at about normal figures. Sweet peas have fallen off in quantity. They say the growers are tearing them out and planting tomatoes. Perhaps they are right. The indoor sweet pea has to take a back seat when the hot weather comes along.

PITTSBURGH Judging by the present prospects, there will be absolutely no home-grown peonies for Decoration Day, owing to the unusually backward spring season. Carnations and lilies continue scarce. Indoor grown iris are plentiful and of fair quality. In a week or so, however, there will undoubtedly be plenty of the outdoor iris. While plentiful, sweet peas have lost their color. Roses are coming in fairly well. The market is cleaning up right along at very good prices, which promises to be the condition for some time yet to come.

ROCHESTER Business has improved considerably during the past two weeks. All florist work is brisk. A good quality of roses and carnations are on the market. Daffodils and tulips are very scarce. Giant and "baby" gladioli are now being shipped in and sell fast. Sweet peas, Spanish iris, snapdragon, pansies, mignonette, marguerites and corn flowers all sell readily. Plant trade, both bedding and perennial, is rushing.

ST. LOUIS Sultry weather has set in and again we are in the midst of a glut. Outdoor flowers, of course, influence to a great extent the price of roses and carnations. Dry goods stores are again in their glory. Good carnations at 25c. a dozen, sweet peas at 5c. a bunch. Peonies and jessamines are now on the market and will be right in line for Memorial Day.

WASHINGTON The first real breath of summer came last week and with it came the flooding of the market with stock of all kinds. Business, nevertheless, continues good and fair prices generally prevail. Spanish iris is one of the few flowers that the market is short of and there is a good

PATRICK WELCH, WHOLESALE FLORIST

262 DEVONSHIRE STREET, BOSTON, MASS.

American Beauties, Orchids, Valley, Carnations. All the novelties in the Cut Flower Market furnished on short notice. Prices quoted on application. No retail orders accepted. Flowers shipped out of Boston on early trains.

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NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending May 19 1917		First Half of Week beginning May 21 1917	
Cattleyas	20.00	to 50.00	20.00	to 50.00
Dendrobium formosum	.....	.....	.....	.....
Lilies, Longiflorum	2.00	to 6.00	2.00	to 6.00
Lilies, Speciosum	2.00	to 6.00	2.00	to 6.00
Callas	3.00	to 6.00	3.00	to 6.00
Lily of the Valley	3.00	to 8.00	1.00	to 6.00
Snapdragon	1.00	to 5.00	1.00	to 5.00
Daffodils	.50	to 1.50	.50	to 1.50
Spanish Iris	1.00	to 3.00	1.00	to 3.00
Roman Hyacinths	.....	.....	.....	.....
Freesia	.....	.....	.....	.....
Tulips	1.00	to 2.00	1.00	to 2.00
Calendulas	.50	to 1.00	.50	to 2.00
Sweet Peas	.15	to 1.00	.15	to .75
Violets	.....	.....	.....	.....
Marguerites	1.00	to 2.00	1.00	to 2.00
Gardenias	4.00	to 30.00	1.00	to 20.00
Adiantum	.50	to 1.00	.50	to 1.00
Smilax	15.00	to 20.00	15.00	to 20.00
Asparagus Plumosus, & Spreng (100 bunches)	15.00	to 25.00	15.00	to 25.00

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Always Ready to Receive Consignments and Can Market Them Satisfactorily. Wanted Specially, Early Peonies, Gladioli, etc., for Spring Trade.

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BOSTON'S FOREMOST
Wholesale and Commission Florists

82 Otis Street, 2 Winthrop Square

BOSTON, MASS.

Telephone 2618-2617-2616, Main.

demand for all that is obtainable. Carnations clean up well each day and the sale of roses is highly satisfactory. Small flowers are moving much better this year than ever before and despite the fact that daisies are growing in the fields, yellow and white ones from the greenhouses find a fair market.

NEW CORPORATIONS.

Cleveland, O.—Wooster Road Greenhouse Co., capital stock, \$5,000. C. B. Cross, president.

Sheboygan, Wis.—J. H. Allan Seed Company, capital stock \$110,000. Incorporators, E. W. Parmelee, W. B. Lucas and A. L. Sommer.

Cleveland, O.—Wooster Road Greenhouses, growers, capital stock \$50,000. Incorporators, C. R. Cross, John M. Burkemer, Harry P. Chittock, D. V. Fisher and J. E. Griffith.

New York, N. Y.—Heatherhome Seed & Nursery Co., 258 Fifth Ave., to deal in seeds, plants, bulbs and nursery stock; capital stock, \$105,000. Incorporators: J. Roehrs, T. Knight and G. F. Struck.

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Wholesale Commission Florists
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We Solicit Consignments of New
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Importers and Growers of
ORCHIDS
Cut Flowers of All the Leading Varieties
in their Season.

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We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
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Florists' Requisites

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HOME GROWN ASPARAGUS
CUTFLOWERS
IN ANY QUANTITY
55-57 W. 26th St., NEW YORK

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Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

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For page see List of Advertisers.

APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

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S. S. Skidelsky & Co., Philadelphia, Pa.
Plumousus Nanus.
For page see List of Advertisers.

ASPARAGUS

Asparagus Plumosus Seedlings, \$1.00 per 100, \$5.00 per 1000 Ready May 1st. COL-
LINGDALE GREENHOUSES, Collingdale, Pa.

ASTERS

Henderson's Invincible, a fine Aster for cutting and trade pullers for your customers' own planting; separate colors, strong, transplanted plants, prompt shipment; \$5.00 per 1000. Cash. BRILL
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P. Ouwkerk, Hoboken, N. J.
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August Rolker & Sons, New York City.
For page see List of Advertisers.

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H. Bayersdorfer & Co., Philadelphia, Pa.
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BEGONIAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

BEDDING PLANTS

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Geraniums, Nutt, Ricard, Vland, Buchner, 4-in., \$5.00 per 100. Nutt and Rose Scented, 3½-in., \$6.00 per 100. Germany Ivy, Canna Robusta, 3½-in., \$6.00 per 100. Dracaena indivisa, 3-in., \$7.00 per 100. Geranium Salleri, Coleus Trailing Queen, Begonia Vernon, Blue Ageratum, White Daisy, 3-in., \$5.00 per 100. White Daisy, 4-in., \$15.00 per 100. Cash. F. SOKOL, College Street, Worcester, Mass.

BEGONIAS

BEGONIA LORRAINE.
2¼-in. pots, \$14.00 per 100; \$120.00 per 1000.
BEGONIA MRS. J. A. PETERSON.
2¼-in. pots, \$20.00 per 100; \$180.00 per 1000.
JULIUS ROEHRS COMPANY,
Rutherford, N. J.

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Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.
King Construction Co., North Tonawanda, N. Y.
"King Ideal" Boiler.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

Hitchings & Co., New York City.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

BOX TREES

August Rolker & Sons, New York City.
For page see List of Advertisers.

BULBS AND TUBERS

J. M. Thorburn & Co., New York City.
Lilium Harrisii.
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Bulbs.
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August Rolker & Sons, New York City.
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R. & J. Farquhar & Co., Boston, Mass.
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Chas. Schwake & Co., New York City.
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Arthur T. Boddington Co., Inc.,
New York City.
Cold Storage Lily Bulbs.
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C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK BRANCH, 8-10 Bridge St.

CANNAS

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CARNATION STAPLES

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 1000 for 35c.; 3000 for \$1.00 post-paid. I. L. PILLSBURY, Galesburg, Ill.

CATTLEYA DOWIANA

George Schlegel, Brooklyn, N. Y.

CHRYSANTHEMUMS

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CYCLAMENS

CYCLAMENS.

Best strain separate colors or mixed.
3-in. pots, \$10.00 per 100; \$90.00 per 1000.
JULIUS ROEHRS COMPANY,
Rutherford, N. J.

DAHLIAS

Peony Dahlia Mrs. Frederick Grinnell.
Stock For Sale.
JOHN P. ROONEY, New Bedford, Mass.

ORDERS BOOKED ANY TIME
For Fall or Spring delivery. Wholesale and Retail. Send for Catalogue. NORTHBORO
DAHLIA & GLADIOLUS GARDENS, J. L. Moore, Prop., Northboro, Mass.

NEW PAEONY DAHLIA

John Wanamaker, Newest, Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to
PEACOCK DAHLIA FARMS, Berlin, N. J.

DECORATIVE PLANTS

Julius Roehrs Co., Rutherford, N. J.
Choice Flowering and Foliage Plants.
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Greenhouse glass, lowest prices. JOHN-STON GLASS CO., Hartford City, Ind.

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Lord & Burnham Co., New York City.
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Pecky Cypress.
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GOLD FISH

Gold fish, aquarium plants, snails, castles, globes, aquarium, fish goods, nets, etc., wholesale. FRANKLIN BARRETT, Breeder, 4815 D St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

GREENHOUSE CONSTRUCTION

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Lemon Oil Insecticide.

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IRIS

Iris, German, 10 named varieties, \$2.00 per 100. Japanese, white, purple, mixed, \$5.00 per 100. AMON HEIGHTS NURSERIES, Camden, N. J.

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A. M. Davenport, Watertown, Mass.
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In writing to Advertisers kindly mention Horticulture

NIKOTIANA

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Sanders, St. Albans, England, also
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Beechwood Heights Nurseries,
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HASSALL & CO., Orchid Growers and
Raisers, Southgate, London, England. Im-
mense stock of Cattleyas.

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R. Vincent, Jr. & Sons Co., White Marsh,
Md.
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PEONIES

Peonies. The world's greatest collection.
1200 sorts. Send for list. C. BETSCHER,
Canal Dover, O.

Complete manuals on the Peony, Iris and
Phlox. 25 cents each in stamps. C. S.
HARRISON, York, Nebraska.

PHLOX

Phlox, white or pink, \$3.00 per 100.
AMON HEIGHTS NURSERIES, Camden,
N. J.

PECKY CYPRESS BENCHES

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J. M. Thorburn & Co., New York City.
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SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. LAGER
& HURRELL, Summit, N. J.

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Ant. C. Zvolanek, Lompoc, Calif.
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H. Bayersdorfer & Co., Philadelphia, Pa.
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VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co.

White Marsh, Md.
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Celery plants, Golden Self Blanching
(French strain), also the grand new Easy
Blanching variety, which is easy to grow;
fine plants, ready for the field, \$2.00 per
1000, or \$8.75 for 5000. Cash. BRILL
CELERY GARDENS, Kalamazoo, Mich.

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Hentz & Nash, 55 and 57 W. 28th St.
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Charles Millang, 55 and 57 West 26th St.
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CUT FLOWERS FOR MEMORIAL DAY.

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PANSY SEED.

Michell's Seed House, Philadelphia, Pa.
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WANTS, FOR SALE, Etc.

HELP WANTED

Seedsman Wanted

Thoroughly experienced and educated seedsman to take charge of our flower seed department. Must be of highest character and ability, and capable of preparing the flower seed portion of the catalog. Apply in own handwriting, giving particulars of experience and stating salary required, to ARTHUR T. BODDINGTON CO., INC., 128 Chambers St., New York City.

CHICAGO.

The Garden Bureau has suffered a lapse and will suspend operations.

August Poehlmann is able to be about again, feeling much better for his rest.

Moses Penn, of Boston, is now happily situated with the Alpha Floral Co. His two weeks' vacation in his home city have made him more eager to get back to work.

Sharp, Partridge & Co. report the glass market as very firm. This is due, however, to other uses for glass than for greenhouses, for, as Mr. Partridge states, there is very little building among the growers just now.

Chicago florists stayed at home and tried to do business over the week end, but as one puts it, they lived in the torrid zone Friday and Saturday, in the temperate zone on Sunday and in the frigid zone on Monday and Tuesday. The rapid maturing of stock was checked and the weather man will have a leading part when the play is staged for the holiday just ahead.

Poehlmann Bros.' supply department is now completely settled in its new home adjoining the cut flower room. This is a happy combination which saves a customer's time as well as facilitates the handling of orders. To see the immense line of baskets handled by this firm one would infer that the retail florist used baskets for every order, and this is very nearly the case. Mr. Waters says the eleventh hour orders for supplies for Memorial Day are now coming in, but that they will all be filled on time. In the cut flower department shipping trade is good this week and indications are that there will be no excess of stock for Memorial Day for orders are already very numerous.

ST. LOUIS.

The Park Department have about completed their planting out.

Hardy ferns will start to come in from local points next week.

Special sales were made on roses and sweet peas by down-town florists all the past week at bargain prices.

The growers are giving a dance on Friday, the 25th, at 11 Mile House, to the growers and their florist friends, everybody invited to have a good time.

NEWS NOTES.

Rochester, N. Y.—Horace J. Head has just returned from a business trip to Boston.

Oak Bluffs, Mass.—The following announcement by the Justices of the District Court of Dukes County appears in the local newspaper:

The Justices of the District Court of Dukes County hereby make the following announcement:

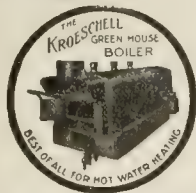
We deem it our public duty to announce that no person, old or young, convicted of larceny, trespass or mischief, who is growing foodstuff are one negro, can appear in the District Court of Dukes County anything but prompt and severe punishment.

EDMUND G. ELDRIDGE, Justice.
Beriah T. Hillman, Abner L. Bostoy,
Special Justices.

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No.	Diam.	Ea.	Doz.	100
10	20 in.	\$1.60	\$17.60	\$145.00
20	18 in.	1.45	15.50	125.00
30	16 in.	1.10	12.25	100.00
40	14 in.	.70	7.75	60.00
50	12 in.	.50	5.50	45.00
60	10 in.	.40	4.40	35.00
70	8 in.	.30	3.50	28.00

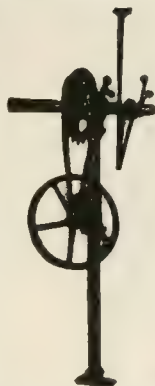
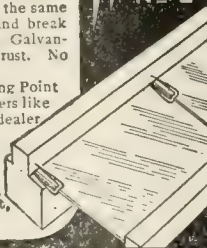
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SIZE
No. 2**The Reason is clear **ADVANCE** Ventilating Apparatus and Greenhouse Fittings are made from the best materials and are mechanically perfect in every detail. It is no wonder, then, that the **ADVANCE** is in such great demand in the florists' field.

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Grand Rapids, Mich.—Reed & Cheney Co., two houses.

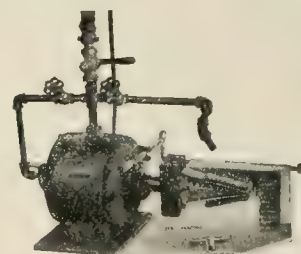
Watertown, N. Y.—John O. Stamp, two 100 ft. houses.

Providence, R. I.—Hoxsie Nurseries, Hoxsie Station, additions.

Kansas City, Mo.—Boyd's Greenhouses, Independence avenue, house 35x130, completed.

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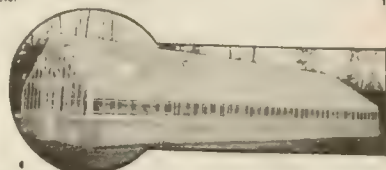


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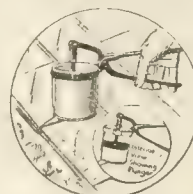
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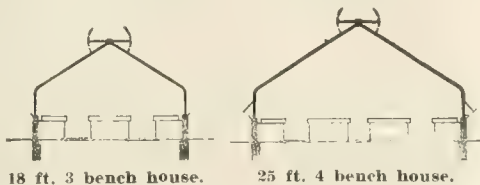
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IF you put that question up to us, we would promptly vote for the 25 footer. That vote would be "influenced," by the plain common-sense fact that for but a little more money you get additional room out of all proportion to the cost.

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Besides 2 walks each 2 ft. 6 in.

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18 ft. 3 bench house.

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In the 18 foot house 550 square feet are yours for benches; and 250 taken by walks.

In the 25 foot—800 for benches, and 350 for walks.

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Vol. XXV
No. 22
JUNE 2
1917

HORTICULTURE



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MODEL J**



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VINCA Variegata, 4 and 4-in. pots, 12½c. and 10c. each.		

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4-inch potgrown at \$8.00 per 100

Bleeding Hearts, Oriental Poppies, Hardy sweet peas,

4-inch pot grown at \$10.00 per 100

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NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toil, we ought to blame the culture, not the soil."—*Prope*.

Care of Adiantum

Plants from 2½ or 3-inch pots will make fine stock to plant. Do not crowd them but give at least 12 inches between plants each way. A temperature of at least 60 degrees at night, a rich compost of raw fibrous soil, three parts, well-rotted cow manure and leaf mold one part each, and some sand, with ample drainage, are the first essentials for adiantum growing. Water carefully at first; just around the plants will do. Keep the soil between the plants freely cultivated and clear of weeds. They will now require quite a heavy shade and as autumn comes gradually reduce it so that by the end of September they will be having full sun. Now is a good time to break up old plants and pot into 3-inch pots. Keep rather close and shaded until they begin to make new roots, when they can be given the same care as above recommended.

Vandas

Give ventilation even when there is a spell of wet and cheerless weather, even if you have to apply a little fire heat. Apply frequent light sprayings overhead. The temperature should be kept at from 60 to 65 degrees during the night with a gradual increase of 10 to 15 degrees during sunshine. Now that evaporation is great, during warm, sunny days the atmosphere should be kept moist by damping the benches and walks freely two or three times a day. From now until the fall they should be watered liberally at the roots and should at no time remain dry for any length of time. It is a mistake to keep them too heavily shaded; all they want is protection from direct sunshine.

Baby Ramblers

Young stock from 3 or 4-inch pots can be shifted along from pot to pot as becomes necessary to keep them growing. They do well in a rich well-composted soil, say about three parts of sods to two parts of manure and a little bone at the last shift. When growing fast they will need plenty of water and syringing once or twice a day. The baby Rambler roses make fine pot plants for the Easter trade and will sell fast in all stages of growth. To have bushy, vigorous plants for next season's trade, it is time now to make a start. I have found that those grown in pots all summer are much easier to manage and give greater satisfaction when forced than those that are grown in the field. When planted in a field let them have the best kind of soil in a freely exposed situation, cultivate well and pot up in October, so they may have time to make new roots before the cold weather sets in.

Next week Eucharis Amazonica; Gardenias; Lilies; Resting Callas; Sweet Peas; Reminders

Dieffenbachias

Syringe regularly once or twice a day and give them abundance of water at the roots. A high degree of moisture should be maintained from this out. When the desired size pot is reached they can be kept in good condition by the use of manure-water once a week during the summer. These plants require plenty of heat and moisture. Increase the night temperature now to 70 degrees. They like a daily syringing overhead through their growing season. They can not be kept too near the glass, if not absolutely touching it, but must be protected from the sun with a thin shade, or the leaves will lose their healthy color and also may burn. They like plenty of atmospheric moisture so do not curb on this during the summer. Always give them plenty of room.

Plants for Stock

Do not wait until there is nothing but a few cast-off plants before selecting what you may need for stock. It is well now to set aside a good number of stock plants to propagate from next fall and winter, such as abutilons, acalyphas, achyranthes, ageratums, alternantheras, begonias, cannas, coleus, fuchsias, geraniums, salvias, verbenas, petunias and many others. Give them a shift where they may need it and remove them to a bench by themselves, so they will not be scattered about. It is essential to take proper care of this stock which will be needed for furnishing cuttings for another season. During the summer these can be planted out in some piece of rich ground where they will produce lots of cuttings by the end of August and if necessary they can be lifted before the middle of September and housed.

Reminders

Keep Phoenix Roebelenii and similar palms away from the walks where they are constantly being rubbed by passers by.

Spray the young smilax regularly and keep insects in check and let it make a good bottom before starting up the strings.

Keep after violet planting inside until finished and do not allow the plants to be about after being taken out of boxes or pots.

Plan for any changes in and additions to greenhouses. Heating arrangements should be completed and the materials ordered without delay.

BOOM YOUR BUSINESS
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Horticulture

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by this paper is THE SORT OF PUBLI-
CITY THAT PAYS.

HORTICULTURE

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A great exhibition

The most extensive and comprehensive out-door horticultural exhibition ever made in this country opens on Saturday of this week in Boston. As we go to press the finishing touches are being given to the exhibits and it is sufficiently near completion to warrant our advising professional gardeners and the florists from even remote places to make the trip to see it at some time during the next two weeks. The area under canvas is computed to be seven times the floor space in all the halls in Horticultural Building. We shall not attempt any description of the various features now but next week's issue will give full details. Come and see for yourself.

"Business as usual"

Ed. Jenkins does not agree with HORTICULTURE's attitude on the much disputed "business as usual" proposition and promptly "gets after us" with characteris-

tic Jenkins aggressive earnestness in criticism of our editorial note of last week in which we expressed the hope that the example set by the Lenox Horticultural Society, in discontinuing its exhibitions because of the war conditions, would not be generally followed by other societies. Mr. Jenkins makes out a good case as to the existing situation in the Berkshires and we agree that the Lenox gardeners are the best judges of what is the better course for them to follow in the present lamentable exigency.

We do not wish to be understood as disputing the wisdom of their decision in particular. What we do deplore, however, is the underlying principle in much that has been advocated by speakers and writers on the question of retrenchment on certain luxuries, so-called, and which Mr. Jenkins frankly admits to have been one main reason for the abandonment of the Lenox exhibitions. It is true that civilization's very life depends upon the outcome of this stupendous world conflict and we should be ready to make any and all necessary sacrifices in order that the hard-won results of centuries of humanity's struggle upward may not be swept away. Intelligent economy, the elimination of waste and a thorough realization of the gravity of the work before us are essential but we must not lose our heads and strike a blow at that which constitutes the very essence of civilization.

It has been said that civilization is but a thin veneer underneath which will be found only the cold-blooded, pitiless savage and the truth of this assertion would seem to be proven by the inhuman atrocities which in Europe have marked the three past years. Must we, too, follow suit and divest ourselves of the refinements and humanizing influences that help to make life worth living, cease to "feed the aesthetic soul of man," as the late William R. Smith was wont to say, devote our energies primarily to eating and killing, and thus give the lie to the scriptural injunction, "Man shall not live by bread alone"?

We submit that there never has been a time when flowers and gardens and horticultural exhibitions were more seriously needed in this country than during the period through which we are now passing. Whether they are technically up to previous standards or whether prizes are offered or not, is immaterial if only we shall be "doing our bit" to stem the retrograde movement which threatens to overwhelm the world. History shows that Boston and Massachusetts did their full share in the stern realities of the bitter conflict of '61-'65. The length of that struggle was in no way influenced by the course which the Massachusetts Horticultural Society pursued while it lasted but on the other hand it is reasonable to assume that the activities which Mr. Jenkins seems to regard as having been frivolous and ill-timed did serve in some degree as an antithesis to the demoralizing and brutalizing influences of those cruel years. It is also doubtless true that to its courageous persistence in "business as usual" under all circumstances is due the uninterrupted pre-eminence of the Massachusetts Horticultural Society among its sister societies everywhere and of the people in its particular section in the most refining of all arts. Let us stand our ground, continue to educate the people in the love of flowers and show the world that Horticulture has not been and shall not be stamped. We can take a lesson from France, where, despite the privations and terrible stress which the people have suffered a rose congress with plans for two years' trials is to open this summer.

"Cold Feet"

Under the above heading you have an editorial note in your issue of May 19th about the action of the Lenox Horticultural Society in abandoning its flower shows. Now "cold feet" implies fear or even cowardice and I hasten to repudiate and correct such an erroneous impression.

Not "cold feet" but warm-hearted, red-blooded patriotism *was* and *is* the underlying motive in our action. "*Nulli Secundus*" has ever been the motto in horticultural matters and our motto in patriotism is the same. You must remember that the Lenox gardeners are farmers as well and they are growing from one to twenty acres additional to their usual crops of potatoes besides extra cow beans and many other food crops, and this (owing to the labor shortage) with reduced staffs of men.

Another error—you seem to think that this came from our employers, but not at all. We did it entirely of our own volition—because we consider it decidedly unpatriotic to be devoting time, labor, money and skill to growing flowers for exhibition when the same items should be put into the growing of food stuff. The gardeners of the Berkshires would scorn to have a flower show that was not "of the best" and it is manifestly impossible to have it so under existing conditions. You refer to the fact that flower shows were held regularly through the Civil War period. That proves nothing, except that the people never realized as a whole what sort of a problem they were "up against." Had they quit flower shows and other unnecessary things at the beginning of the war and devoted their whole strength to the winning of the fight it might have been over in half the time. We in this neighborhood have grasped the fact that we should not consider our own petty interests but rather the whole nation's interest. Not "Business as Usual," but "Everything Unusual," is the slogan of the Lenox gardeners as interpreted by

Edwin Jenkins

Moisture Loving Primulas

Under this heading are included many delightful subjects, adapted for moist situations. Although all members of the genus *Primula* vary considerably, regarding soil and location, yet, a great number can be grown in cool, moist or bog situations. If grown in bold masses they form a very attractive feature.

The commoner varieties, viz., *P. japonica* and *P. pulverulenta*, do not require much comment. They form large superposed whorls of clear purple flowers, produced on spikes 12 in. to 18 in. long. No bog garden is complete without them, and once established they require no further attention.

Amongst the diminutive, but by no means the least attractive varieties, *Primula Cockburniana* and *P. sikkimensis* rank as foremost. Masses of the former, with their dainty heads of orange vieing with the golden-yellow bell-shaped perianths of *P. sikkimensis* is entrancingly attractive. Another little gem is *P. rosea* and its variety *grandiflora*. The flowers are rose-red, more or less drooping. This is one of the best of Alpine primulas.

Primula denticulata, its cousin *Cashmiriana* and its varieties are also very attractive plants, having flowers varying from light blue to deep purple. There is also an alba form of *P. denticulata*. If left undisturbed they form large clumps which give fine effect.

Primula siberica, a plant with lilac colored flowers, is a more tender species and its hardiness in this climate is theoretical.

Those mentioned, with the exception of *Cockburniana*, can be treated as perennials. *Cockburniana* is best treated as a biennial, as a large per cent. of that species die annually. For compost a mixture of equal parts, loam, leaf-mould and sand is preferred. All the species produce seed abundantly. In winter a light covering of dry leaves is beneficial.

J. B. Reardon

Somerville, Mass.

A WORKER APPRECIATED.

We are glad to learn that Chas. G. Patten, the noted pomologist, has sold his propagating plant to the Iowa Agricultural College. We both belong to the Minnesota Horticultural Society and are of the same age—84. He has probably done more than any man to move the fruit belt north. For fifty years he has been hard at work, and an immense burden was resting on him and he had much anxiety for the future. Said he: "I am where I can't let go. I can't stop in the midst of my work and I am not strong enough to go ahead." It is well the state has stepped in to save the results of half a century of hard work and important experiments. He has done good work with his plums and has been at work on blight resisting pears. Mr. Patten is a reverent christian—a soldier of peace, and he will soon leave the world far better than he found it. We are glad he can rest by the margin of the river till he is promoted to the higher horticulture—"Where everlasting spring abides and never withering flowers."

C. S. HARRISON.

York, Neb.

THE FOOD QUESTION.

If the "raise eats" program keeps on the following little squib meant in fun may really have more truth than poetry in it:

THE WEDDING

It was the swellest wedding that Manhattan ever saw;
The bride's bouquet was cauliflower
With shower effect of slaw.

The decorations formed a bower
Of cabbages and beans,
With spinach and asparagus
And other garden greens.

Aigrettes of slender scallions trimmed
The bridesmaids' hats of lace,
And in the best man's left lapel
A radish found a place.

The wedding cake was decked with beets,
Cucumbers and tomatoes,
And princely was the bridegroom's gift—
A barrel of potatoes.

—*Minna Irving in The Sun.*

We generally have more food in this country than can be used and why it should be different this year, passes comprehension—especially as the shipping facilities on the high seas is short. A better slogan would be: "More boats and business as usual."

G. C. WATSON.

WHITE-PINE BLISTER RUST.

The fact has been determined by the Secretary of Agriculture that it is necessary, in order to prevent the further spread of a dangerous plant disease known as the white-pine blister rust (*Peridermium strobi* Kleb.), not heretofore widely prevalent or distributed within and throughout the United States, to quarantine immediately the States of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, and Connecticut.

Now, therefore, I, David F. Houston, Secretary of Agriculture, under the authority conferred by section 8 of the plant quarantine act of August 20, 1912 (37 Stat., 315), as amended by the act of Congress approved March 4, 1917 (Public No. 390, 64th Cong.), do hereby amend Notice of Quarantine No. 26, promulgated April 21, 1917, effective on and after June 1, 1917, and by this amendment do order that from and after the date hereof no five-leaved pines or black currant plants shall be moved or allowed to move interstate to points outside the area comprising the State of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, and Connecticut.

CLUBS AND SOCIETIES

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

The following communication has been sent out to all State Vice-Presidents from the office of the President:

State Vice-Presidents:—

I am this day appointing you Chairman of the "On To New York" Convention Committee.

Your duty will be to stimulate a large attendance at the Convention in New York, this August.

You possibly realize that this is the most important convention we have had in years, due to the fact that serious conditions confront our country at this time, the florists of the country should get together, and must show our co-operation with the Government in the present crisis.

The florist business is looked upon by the warring nations as unnecessary business during the time of war. It is up to us to convince the people that our business is very necessary, and absolutely essential in this crisis. We should go further and devise ways and means of growing such stock that will assist the Government in food preservation. Therefore, at this Convention, these various matters can be taken up and discussed.

Impress upon the members in your state the vast importance of the coming Convention, and trust that you will take interest in circulating the members of your state. Just a suggestion—get up a state delegation concentrating at some central location in your state, and proceed to the Convention in a body.

Please advise me by return mail what I may expect from you in this work.

Trusting I may hear from you with a favorable reply, I am,

Yours respectfully,

R. C. KERR, Pres.

Houston, Texas, May 28, 1917.

Department of Plant Registration.

Public notice is hereby given that as no objection has been filed the following registration becomes complete. Laelio-Cattleya Adela Griswold, by William E. S. Griswold, Wyndhurst, Lenox, Mass., Alfred J. Loveless, gardener.

JOHN YOUNG, Secy.

May 26, 1917.

THE HORTICULTURAL SOCIETY OF NEW YORK.

There will be an exhibition of plants and flowers on Saturday and Sunday, June 9 and 10, in the Museum building, New York Botanical Garden. This will be open on the first day from 2 to 5, and on the second day from 10 to 5. Schedules are now ready for distribution, and will be sent on application to the secretary, George V. Nash, Mansion, New York Botanical Garden, Bronx Park, N. Y. City.

GEORGE V. NASH, Secy.

Meetings Next Week

Monday, June 4.

Bernardsville Horticultural Society, Horticultural Hall, Bernardsville, N. J.

Elberon Horticultural Society, Fire Hall, Elberon, N. J.
Houston Florists' Club, Chamber of Commerce Rooms, Houston, Tex.
Montreal Gardeners' and Florists' Club, Montreal, Canada.

New Bedford Horticultural Society, New Bedford, Mass.

Washington Florists' Club, Washington, D. C.

Tuesday, June 5.

Florists' and Gardeners' Club of Holyoke and Northampton, Mass.
Lake Geneva Gardeners' and Foremen's Association, Horticultural Hall, Lake Geneva, Wis.

Los Angeles County Horticultural Society, Los Angeles, Cal.

Paterson Floricultural Society, Y. M. C. A. Bldg., Paterson, N. J.

Florists' Club of Philadelphia, Horticultural Hall, Philadelphia, Pa.
Pittsburgh Florists' and Gardeners' Club, Fort Pitt Hotel, Pittsburgh, Pa.

Wednesday, June 6.

Tuxedo Horticultural Society, Tuxedo Park, N. Y.

Thursday, June 7.

Albany Florists' Club, Albany, N. Y.

Reading (Pa.) Florists' Association, Reading, Pa.

Southampton Horticultural Society, Odd Fellows Hall, Southampton, N. Y.

Friday, June 8.

Connecticut Horticultural Society, County Building, Hartford, Conn.

Westchester and Fairfield Horticultural Society, Doran's Hall, Greenwich, Conn.

Saturday, June 9.

Dobbs Ferry Gardeners' Association, Dobbs Ferry, N. Y.

NASSAU COUNTY HORTICULTURAL SOCIETY.

The Nassau County Horticultural Society held its annual Spring Show in the Neighbourhood House, Glen Cove, N. Y., on Wednesday, May 23rd. The quality of blooms did not equal those of last year, owing to the inclement weather, but competition was keen in all classes. Much praise is due our hardworking manager, R. W. Jones, for the tasteful arrangement of the show. The judges were Jas. Duthie, E. Westlake and Jas. McCarthy who awarded the principal honors to John F. Johnson, Jas. McDonald, Jos. Adler, Wm. Noonan, Jas. McCarthy, John Dombrowsky and Robt. Jones. Cultural certificates were awarded to the following: John F. Johnson for an exquisite vase of salpiglossis; Jas. McCarthy for well grown sweet peas Yarrowa; Robt. Jones for a magnificent group of French hydrangeas.

HARRY GOODBAND, Corr. Secy.

NEW JERSEY FLORICULTURAL SOCIETY.

The regular monthly meeting of the New Jersey Floricultural Society was held on Monday, May 21. It was a general reunion of the society and all the older members who helped reorganize the same in 1894 were present. The following officers were elected: Joseph A. Manda, president; Rev. L. H. Lighthipe, vice-president; Edw. A. Manda, treasurer; Geo. W. Strange, secretary. The society will offer its services toward the promotion of home gardening throughout the Granges and a special meeting will be held on June 18 to formulate plans for the same. It is expected that all the heads of the various civic leagues will attend this meeting.

Prizes will be offered to the amateur gardener at our fall show and a schedule will be ready in a few weeks. GEO. W. STRANGE, Secy.

AMERICAN ROSE SOCIETY.

The good florists of Washington as well as the amateur rose growers of the locality look forward to a larger crowd than ever to attend the third Annual Outdoor Meeting of the American Rose Society, which will be held at the National Rose Test Garden (Arlington) Washington, D. C., on Monday, June 4. Visitors are reminded to meet at Gude Brothers, at 9 A. M., where automobiles to the Garden will be provided. Those coming kindly notify W. F. Gude, 1214 F. Street, Northwest, Washington, D. C., or Robert Pyle, West Grove, Pa., chairman National Rose Test Garden Committee.

Acceptances to speak have been received from Hon. Carl Vrooman, Assistant Secretary of Agriculture, J. Horace McFarland, President American Civic Association, with distinguished visitors expected from New York, New England, and other distant points.

CLUB AND SOCIETY NOTES.

The St. Louis Retail Association meeting on Monday, May 21st, was a very interesting one. It was announced that at the next meeting an endeavor would be made to make it a get-together meeting, growers, wholesalers and retailers to have a talk about consolidation.

The regular meeting of the Cleveland Florists' Club will be held Monday, June 4th at 8 o'clock in the Assembly Room of the Hollenden. The speaker will be W. A. Manda, of South Orange, N. J., who will talk on "orchids." Members of The Garden Club of Cleveland, The Heights Garden Club and The Lakewood Garden Club and Cleveland Women's Florist Club have been invited to hear Mr. Manda.

AL. B. BARBER, Secy.

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AGERATUM, Blue and White.	2¼-in.	3.00	
AGERATUM, Blue and White.	3¼-in.	5.00	
ALTERNANTHERAS	2¼-in.	3.00	
ASPARAGUS Sprengeri.	3-in.	6.00	
ASPARAGUS Sprengeri.	4-in.	10.00	
BEGONIAS, Crimson Bedder.	3-in.	10.00	
BEGONIAS, Varieties for Basket			
and Vases	2½-in.	4.00	
BEGONIAS for Baskets and			
Vases	3¼-in.	10.00	
CUPHEA Platycentra.	2¼-in.	3.00	
COLEUS, All leading sorts.	2¼-in.	3.00	
COLEUS, All leading sorts.	3-in.	4.00	
CENTAUREA Gymnocarpa.	2¼-in.	3.00	
DRACAENA Indivisa.	4-in.	15.00	
DRACAENA Indivisa.	5-in.	30.00	
DRACAENA Indivisa.	7-in.	40.00	
ENGLISH IVY	4-in.	10.00	
FEVERFEW, Double White.	2¼-in.	3.00	
FUCHSIAS, Double and Single.	2¼-in.	3.00	
FUCHSIAS, Double and Single.	3½-in.	8.00	
FORGET-ME-NOT	2¼-in.	3.00	
GAZENIAS	2½-in.	4.00	
GERANIUMS, Double & Single.	3½-in.	8.00	
Double and Single.	2¼-in.	3.00	
Fragrant Rose, etc.	3½-in.	8.00	
HELIOTROPE	2¼-in.	3.00	
HELIOTROPE	3½-in.	6.00	
IVY, German.	2¼-in.	3.00	
IVY, German.	3-in.	5.00	
LEMON VERBENAS.	3-in.	6.00	
LEMON VERBENAS.	2¼-in.	4.00	
LOBELIA, New Double Blue.	2¼-in.	4.00	
LOBELIA, New Double Blue.	3-in.	6.00	
MOONVINE, True White.	2¼-in.	4.00	
MOONVINE, True White.	4-in.	10.00	
PETUNIAS, Single Fringed.	2¼-in.	3.00	
SALVIAS	2¼-in.	3.00	
SALVIAS	4-in.	6.00	
SWAINSONA Alba.	2¼-in.	4.00	
STEVIA Compacta.	2¼-in.	3.00	
TRADESCANTIA	2¼-in.	3.00	
VINCA Variegata and Elegans.	3-in.	6.00	
VINCA Variegata and Elegans.	4-in.	10.00	
VINCA Variegata and Elegans.	2¼-in.	3.00	

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DAHLIAS AND THEIR CULTURE

A Paper by Richard Vincent, Jr., Reported by Albert M. Herr.

About a century and a quarter ago, a little Mexican flower, soon named Dahlia, was first introduced to the gardens of Europe. The blossoms then consisted merely of a few floral rays or petals, red yellow or purple in color, about a central disk of rayless yellow florets. The flowers, near relatives of our common weed—the beggar's tick—and of coreopsis and cosmos, were only small to medium size, but their lightness and grace, the purity and brilliancy of their colors, their rapid changes under cultivation, and the freedom of their bloom soon won them popularity.

From this single type the Dahlia has since passed through one of the most wonderful developments known in floriculture, well justifying the species name generally given to it, *variabilis*; and today, it probably shows a greater diversity in habit, size, form and color, and is represented by more named varieties than any other species (or group of closely allied species) known to the florist. Among the multitude of flower forms we have almost exact duplicates of cosmos, daisy, poinsettia, clematis, anemone, zinnia, aster, water lily, cactus, chrysanthemum and peony, with many other forms peculiar to the species itself. In size the blossoms range from tiny blooms an inch or less in diameter to huge flowers rivaling the sunflower; they show every color, tint and shade, excepting the blues, known among flowers, and every combination of these by suffusion or variegation, in brilliance equalling geranium or salvia, in delicacy approaching roses or orchids, in range from a maroon almost reaching black, to a white as pure as that of the Easter lily.

One fault indeed they have. They are practically odorless; though a few scented varieties have arisen, and this characteristic, like other non-existent or at least hidden in early days of dahlia history, can probably be developed or intensified should popular favor demand it.

Simple in cultural demands, adapted to a wide range of soils and conditions, with plants so diverse in size and habit that one can readily be found appropriate for any situation, affording a wealth of bloom over a long season, suitable in some of the many varieties for every floral purpose—for garden decoration, for bouquets and exhibitors' tables—the dahlia now holds high rank as a late summer flower, and it certainly merits equally with the chrysanthemums the title "Queen of Autumn Flowers" for the dahlia is as beautiful and useful outdoors before frost as is the chrysanthemum inside or outside a little later.

Yet so recent is the development of the dahlia in its most pleasing and useful forms, that many flower lovers, particularly in the country, where the dahlia should be most popular, know nothing of the modern types. To such persons the only idea of the dahlia is conveyed by the ball-shaped blossoms

of the old show and fancy types once so popular. These are models of perfection in form, of symmetry and regularity, and are often of most exquisite coloring but they lack the grace and artistic appeal that help to make flowers so attractive and that has been wonderfully developed in the newer dahlias.

What a surprise it is to many flower lovers to see for the first time a collection of modern dahlias. Its English singles, its pompons and its miniature cactus types are so bright and yet so dainty; its Century singles so large and striking but withal, so graceful; its decoratives ranging from tiny to huge, are so perfect in form yet loosely built and pleasing; its Cactus dahlias so refined and delicate of petal, like masses of interlaced, slender curved tubes of ribbon with tints almost as varied and delicate as those of changeable silk, and its peony-flowered types so artistic in the informal, open arrangement of their long curled twisted petals so gracefully held on long stems that raise them far above the bright green foliage.

Soil.

The most suitable soil for growing dahlias is a sandy loam. Heavy soil can be lightened by the use of coal ashes or sand, anything that will help to make the soil porous. Whenever possible the land for dahlias ought to be plowed or spaded up in the fall. The action of the freezing helps to make soil more friable. We ourselves use very little manure, preferring bone meal with the addition of a little potash, rather than manuring. If the ground is spaded in the fall or early winter the bone could well be mixed with the soil at that time. In using manure we would rather use it as a mulch, put on any time after the plants or roots are set. Any kind of material used for mulching around the plants will retain moisture and save watering, and if the soil is watered it will keep it from baking. By using bone we get a more stocky growth and more flowers; at least this is our experience.

Summer Treatment.

We find that the June-planted dahlias invariably give us the finest exhibition blooms. The early plantings have the extreme hot weather to contend with. This very often causes an indifferent growth as the stalk gets hard and the plant forms a mass of small weak limbs with poor flowers, if any, and more subject to diseases and insect pests. This condition can only be remedied by a vigorous use of the knife, cutting back hard so as to cause the plant to make a new and strong growth. The dahlias are not exempt from insect pests any more than other flowers. Growers will find a few sprayings, especially during a drought, are advantageous. Tobacco solution, soap, etc., almost any insecticide, will answer except for the aster bug which feeds on the flower alone. If these are not

too numerous hand picking is the best remedy. They can easily be seen as they very seldom touch the dark colored flowers.

To have the dahlia to grow and show to the best advantage the plants ought to be tied to a strong stake, and to get large flowers thin out when too many limbs start out from the main stalk, also disbud those that remain and which are to carry the flowers.

My interest in the dahlia has been life-long. When I was a boy my father who was a gardener by profession, planted about one dozen roots obtained from somewhere, Child though I was, my interest in this flower was excited and I offered my entire fortune—which was sixpence, to my father to allow me to call one my own. The transaction was accomplished and this made me at the time one of the proudest boys of the land. I had something to show my playmates that none of them had.

Inception of Our Society.

I have for several years thought that there ought to be a Dahlia Society organized on broad lines to disseminate knowledge of this grand flower, look after the new varieties and eradicate indifferent ones, to classify them and so forth, also to publish something that would keep unscrupulous dealers from forcing worthless trash upon the public.

In the spring of 1915 the cry went out from a number of our prominent growers and also the trade papers, regarding an organization. By request I issued a call and we met in New York, May 10, 1915. We organized and formed the American Dahlia Society. Much to my surprise I was elected president. I cannot but thank those who gave me this high honor, as I feel that there is in this organization the nucleus for one of the largest floricultural societies in North America.

Soon after organizing, the New York Horticultural Society offered us facilities for making a show in New York City, in one of New York's finest buildings, and placed at our disposal \$100 for premiums. We gave a show there September 24 and 26, of that year, that we think did credit to our young organization, especially when the weather conditions, heat and storm were considered, which destroyed the flowers of several of our largest exhibitors.

The future of the dahlia as a cultivated plant on this continent is assured and the prospects of our Society are very bright. The dahlia is everybody's flower, easy of cultivation, beautiful in its manifold forms and colorings, unequalled by very few other garden flowers. Almost any one can have and enjoy these favorites, and that they are favorites is shown by the enormous quantities that are grown every year. There are thousands of little gardens where this flower can be grown and grown with the greatest success.

In 1916 under the auspices of the American Institute we gave our second annual Dahlia Show and although on account of excessive rains throughout the growing season that were disastrous to many of the dahlia growers, our show in New York was a wonderful success both in quantity and quality of the blooms exhibited, and in old and new varieties shown, also



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in the increased number of exhibitors and visitors during the entire show, and the interest shown by the various garden clubs, some of which are now affiliated with our Society. A large number of the retail florists put up splendid displays.

We expect to give an exhibition this year in New York combined with the Institute management and should a kind providence smile upon us and our fields and gardens yield an abundant harvest of flowers, we hope to show the world one of the finest and best dahlia shows ever staged. We are also under promise to help and assist other dahlia shows whenever and wherever possible, and with our various trial grounds we hope to be able to test out all varieties in commerce and advise growers both large and small as to the best varieties to plant, both for commercial and private purposes.

INSECTICIDES; OLD CYCLAMENS.

Mr. Editor:

Dear Sir -Will you please tell me through *Horticulture* the best insecticide to use for spraying roses out of doors, mostly Ramblers and a few other kinds. Also what is the right treatment for some large old cyclamen roots through the summer time. By doing so you will greatly oblige
C. N.

There are so many insecticides on the market now, each one having its advocates, that we would not feel justified in recommending any particular one as "best." For aphides we know of nothing better than Aphine; for the rose slug, Lemon Oil is well recommended; for the leaf roller, powdered hellebore applied early is a standard; for black spot, a mixture of 5 oz. carbonate of copper compound to 3 quarts of ammonia and 60 gals. of water is prescribed in the Garden Library book on Roses. Fungine and Vermine both have proven valuable. Full directions for use are given with each package of these standard mixtures. Buy them from advertisers in *HORTICULTURE*.

The best treatment for old cyclamen plants, from the commercial plantsman's view is to consign them to the rubbish dump. But if one wishes to carry them over, the best plan is, after they have finished flowering, to give them a short rest, say a few weeks, and then repot them, first into smaller pots. They should not be "dried off" completely nor anything done to injure the roots. In repotting, the old soil must be removed with great care so that the roots may not suffer the slightest damage.

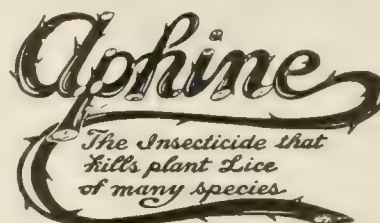
THE OUTLOOK FOR DUTCH AND DANISH SUPPLIES.

August Rolker & Sons have just received the following letter from the office of the Secretary of State at Washington. It may be of interest to importing firms:

"The Department has received your letter of May 24, 1917, with reference to possible difficulties in regard to obtaining horticultural supplies from Holland and Denmark.

"No regulations have been made by the Government of the United States with reference to the importation of goods of Dutch or Danish origin from those countries, and should any action be taken due publicity will be given thereto. It is not, however, anticipated that any regulations of this Government will be directed toward a limitation or regulation of the importation into the United States of goods of Danish or Dutch origin."

Ansonia, Conn.—The Shelton Floral Company is a new enterprise here, John Peterke proprietor.



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½ Pint, 25c.; Pint, 40c.; Quart, 75c.;

½ Gallon, \$1.25; Gallon, \$2; 5 Gallon Can, \$9; 10 Gallon Can, \$17.50.

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To Learn Seed Testing.

"For several years the United States Department of Agriculture has permitted persons interested to spend the months of July and August at the Seed Laboratory in Washington, D. C., to become familiar with the technique and practice of seed testing.

It is expected that more persons than usual may wish to avail themselves of this privilege this year through seedsmen voluntarily furnishing with the field crop seeds they sell, information concerning quality, including the name of the seed, the percent of pure live seed and in the case of certain imported seeds, the country of origin. It is therefore, desired to know definitely not later than June 15th how many and who may be expected.

There will be no charge in connection with this work but each person who comes will be required to supply himself on arrival with certain equipment including hand lenses, forceps, etc., at a total cost not exceeding \$15.00.

Any one wishing to avail himself of this opportunity to become familiar with seed testing should immediately make application to the Seed Laboratory, Bureau of Plant Industry, United States Department of Agriculture, Washington, D. C.

It will be impossible to offer similar privileges at the Branch Seed Laboratories maintained in co-operation with state institutions in California, Oregon, Louisiana, Missouri and Indiana."

DR. WM. A. TAYLOR.

Chief Bureau of Plant Industry,
Washington.

Defence of the Seedsman.

To the Editor of The Sun, Sir: As you have given publicity to remarks by Senator Smoot with regard to an experience in the purchase of some seeds, I wish you would give equal prominence to these few words in defence of a legitimate business which he misjudged because of the acts of individuals who are found in every line of trade.

With a record of fifteen years in the seed business with several firms in different localities, I can say from direct knowledge of costs that the package seeds sold are not charged at excessive rates, and to figure out on the basis of number of seeds a price a pound is entirely unfair.

The chief expense is the cost of the seed container, labor in putting up the package and the cost of distribution for which Senator Smoot apparently makes no allowance.

The Senator no doubt patronizes established concerns with reputations when he purchases his clothing, etc., and the same course should be followed in the purchase of seed. In that event

MICHELL'S NEW CROP PANSY SEED



Michell's Giant Exhibition Mixed. A giant strain, which for size of bloom, heavy texture and varied colors and shades cannot be surpassed. Half trade pkt. 30c.; 50c. per trade pkt.; 1/8 oz. \$1.00; \$6.00 per oz.

Giant Trimardeau Mixed. Large flowering and choice colors. Trade pkt. 30c.; \$1.25 per oz.

Also Giant Prize and Regular sorts in separate colors.

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\$2.50 per 25 lbs.; per 100 lbs. \$9.00; case lots (about 300 lbs.) at 8 1/2c. per lb.

Also all other Seasonable Seeds, Bulbs and Supplies. Send for Wholesale Catalog.

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	Per 100	Per Case	Per 1000
6/8 (400 to case).....	\$4.00	\$14.00	\$35.00
7/9 (300 to case).....	5.50	14.40	48.00
8/10 (225 to case).....	7.50	14.75	65.00
9/10 (200 to case).....	9.00	16.50	82.50

MELPOMENE MAGNIFICUM

	Per 100	Per Case	Per 1000
8/9 (200 to case).....	\$6.50	\$12.00	\$60.00
9/11 (125 to case).....	11.00	13.25	105.00
11/13 (100 to case).....	15.00	14.50	145.00
13/15 (60 to case).....	20.00	12.00	190.00

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there will be no cause for complaints.

HENRY L. WOIF, Newark, N. J.

—in N. Y. Sun, May 23.

A well attended meeting of the Board of Directors of the Wholesale Seedsmen's League was held in the Hardware Club, New York City, on Tuesday, May 22. Important questions of vegetable seed prices for next season and other problems due to present conditions of supply and demand were earnestly discussed.

CATALOGUES RECEIVED

Peter Henderson & Co., New York City—Midsummer Catalogue of Pot-Grown Strawberry Plants and Seeds for Summer Sowing.

Loechner & Co., Inc., New York

City; American representatives of Hjalmar Hartmann & Co., Copenhagen, Denmark—Wholesale price list of Danish seeds, crop of 1917.

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8 lb. for \$1.00

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ADIANTUM GLORY OF MOORDRECHT.

It is strange that this very desirable fern is not much more generally grown and more largely used by the florist. The great beauty of A. Farleyense every one recognizes, but the difficulties in its successful culture and the fact that it produces no seed



are formidable obstacles to its production by the average commercial grower. Its variety Adiantum Glory of Moordrecht is a great acquisition, being fertile, much more easily grown and moreover is a better keeper in a cut state. Anyone who can grow A. cuneatum should be able to do equally well with Glory of Moordrecht.

NEW FLOWER STORES.

Bangor, Me.—Cushman & Worth, 13 State street.

Fort Edward, N. Y.—Thomas Burns, East street, re-opening.

New Bedford, Mass.—Aaron S. Burke, a photographer with an office in the Bristol building, sought to open a florist shop at the north end of that city, on Purchase street, near Weld street, but he will have to obtain an itinerant vendor's license before doing so.

Last week City Clerk Remington was informed by a delegation of local florists that Mr. Burke was preparing to sell flowers during the Memorial Day season, and Mr. Remington sent for Mr. Burke, who informed him that this was his intention, but he was going in business on his own account, and as he was a citizen of New Bedford he assumed that it was his right to engage in any business he chose.

Mr. Remington consulted the commissioner of weights and measures, Mr. Hansen, who informed him that any person who engaged in a temporary or transient business in the commonwealth comes under the itinerant vendor law.

[A license was subsequently issued to Mr. Burke—Ed.]

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Boston—Thos. F. Galvin, 1 Park St.
Boston—Penn the Florist, 124 Tremont St.
Boston—Zinn The Florist, 4 Park St.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.
Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid Ave.
Cleveland, O.—Adam Graham & Sons, 5523 Euclid Ave.
Cleveland, O.—Knoble Bros., 1836 W. 25th St.
Cleveland, O.—The Smith & Fetters Co., 735 Euclid Ave.
Denver, Col.—Park Floral Co., 1643 Broadway.
Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Ave.
Houston, Tex.—Kerr, The Florist.
Kansas City, Mo.—Samuel Murray, 1017 Grand Ave.
Los Angeles, Calif.—Howard & Smith, 853 So. Olive St.
New London, Conn.—Reuter's.
New York—J. H. Small & Sons, 505 Madison Ave., at 52d St.
New York—David Clarke's Sons, 2139-2141 Broadway.
New York—Alex. McConnell, 611 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—A. T. Bunyard, 413 Madison Ave., at 48th St.
New York—Dards, N. E. corner 44th St. and Madison Ave.
New York—Max Schling, 22 W. 59th St.
New York—G. E. M. Stumpp, 761 Fifth Ave.
New York—Thos. F. Galvin, Fifth Ave., at 46th St.
Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.
Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.
St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.
St. Louis, Mo.—F. H. Weber's, N. E. corner of Taylor and Olive Sts.
St. Paul, Minn.—Holm & Olson, Inc.
Tarrytown-on-Hudson, N. Y.—F. R. Pier-son Co.
Toronto, Can.—J. H. Dunlop, 8-10 West Adelaide St.
Washington, D. C.—Gude Bros., 1214 F St.
Washington, D. C.—George H. Cooke, Connecticut Ave. and L St.
Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop, 22 Pearl St.

Send Telegraph, Telephone or Mail orders
for florist service in this vicinity to

Howard & Smith
853 SO. OLIVE ST.
Los Angeles, Calif.

Every Order sure to receive
prompt and careful attention.

REUTER'S Members Florists'
Telegraph
Delivery

STORES IN

New London and Norwich, Conn.
and Westerly, R. I.

We cover the territory between
New Haven and Providence

ST. LOUIS, MO.

FRED C. WEBER
4326-28 Olive St.

Member Florists' Telegraph Delivery Association
NOTICE INITIALS. We have one store only

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

The Far-Famed Flowers of
TORONTO

Delivered on mail or telegram order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP
8-10 West Adelaide St. - TORONTO, ONT.

ALBANY, N. Y.

EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

106 STATE STREET, ALBANY, N. Y.

"THE HOME OF FLOWERS"

The largest cut flower store in America.
Orders for the TWIN CITIES and for all
Northwestern points given prompt at-
tention

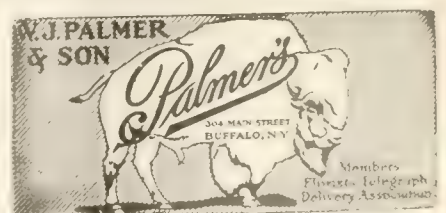
HOLM & OLSON, Incorporated
ST. PAUL, MINN.

The Park Floral Co.

J. A. VALENTINE, Pres.

Members Florists' Telegraph Delivery.

DENVER, COLORADO



KERR ORDERS FOR TEXAS
HOUSTON, TEXAS
The Florist Member F. T. D. Association

NEWS ITEMS FROM EVERYWHERE

CHICAGO.

There have been more wedding orders to take care of than usual in May, this year, many of them quite elaborate.

J. J. Benthey has returned to his usual place of business, feeling better but not quite recovered from his recent illness.

Poehlmann Bros. Co. is having a dictaphone installed in their city office which they will make a permanent fixture if it proves satisfactory.

Some of the big department stores had their regular plant sales on the day previous to Memorial Day. Many thousands of plants were sold.

A. Henderson has found more room necessary for handling his seed trade and has secured the use of the store at the corner of State and Lake streets for the balance of the season.

The American Greenhouse Co. is holding a conference of its salesmen today, whose reports show that many medium sized orders are being placed.

One of Chicago's large growers has placed his order for coal at \$5.35 per ton, fearing the price will advance rather than decline during the summer.

A severe frost occurred on the night of May 22nd and many a precious home garden is ruined. The seed stores are as busy as at any time in the season.

W. J. Smart, lately with Knight & Struck, is now booking orders for the Foley Greenhouse Manufacturing Co., of Chicago, and also representing the Aurora Nursery Co., of Aurora, Ill.

Zech & Mann has a very heavy shipping trade on Sunday. All hands worked throughout the day and were ready again at five the next morning getting out the orders. It did not facilitate matters when Mr. Zech sprained his ankle, but he lost no time notwithstanding.

Among the finest peonies coming into the market are those grown by Dr. A. J. Knapp, of Evansville, Ind. O. A. & L. A. Tonner are handling these peonies. So fast is the cut flower end of their business growing that a part of the supply department will be dropped in the near future.

Hoerber Bros. cut carnations entirely from their list of growing stock and have not regretted doing so, as the demand has been more steady for roses. Mr. Hoerber thinks the coal situation likely to improve during the summer, which would bring about a lower price than can be had at this time, so has not placed his order.

J. C. Butler, cashier for Poehlmann Bros. Co. at their store, was hurt in an accident two weeks ago when a motorcycle which he was riding collided with a street car, near Crown Point, Ind. He was severely injured and taken to a hospital in that city, but soon returned home feeling better and returned to his work. This week he is worse and confined to his home.

P. L. McKee, president of the American Greenhouse Co., has just received an interesting letter from W. A. Rowe of Kirkwood, Mo. The American Greenhouse Co. has presented handsome gold pocket pieces wishing good luck to its patrons, and Mr. Rowe had just received one when his auto was stolen. He says the good luck came when the auto was recovered, although it cost the life of the young thief.

W. W. Adams will move this week to his new location at the corner of State and Division streets about three blocks from his present store. The corner is an important one from a business standpoint, and a number of years ago the Fleischman Floral Co. operated a branch store here and erected conservatories, which Mr. Adams has had put in first class condition as well as the store, so the place will be one of the finest on the north side.

ROCHESTER, N. Y.

Dewey Lester of the Rochester Floral Co., has joined the U. S. Engineering Corps, Columbus Barracks, and was presented with a New Testament as a parting gift.

H. E. Wilson will open up a wholesale flower and supply store at 41-43 Stone street on June 1st under the name of Wilson Floral Co. The store has been thoroughly remodelled and a good sized icebox has been installed.

The Polyanthus Primroses make a display of exceptional beauty at Highland Park. They are finer this year than ever before. The evergreen raspberry from Oregon, not over a foot high and covering about 100 square feet of ground, is worth a special visit, with its clusters of yellow blossoms. The Siberian crabapple now blossoming in the Shakespeare garden offers a brilliant bit of color with its flowers of deep red. Lilac day, a big day at Highland Park, will be the first Sunday in June.

PHILADELPHIA.

There is no truth in the rumor astiduously circulated by adverse interests that Charles E. Meehan is to retire from the Pennock-Meehan Co. He only retires as vice-president, so that he may have more time to devote to his growing establishments in Germantown and Churchville. He still remains a stockholder in the corporation. A change in the personnel of the officers of a company is of daily occurrence, and no one gets excited about it unless hard up for a peg to hang a story on.

PITTSBURGH.

Earl J. Hunkle, who has been for a long time with the E. C. Ludwig Floral Company, is now with the McCallum Company.

Gilbert P. Weaklen, of G. P. Weaklen & Co., has bought out the other member of the firm and is now in full control of the business.

NEW YORK.

Guttman & Raynor, Inc., have leased adequate space in the well equipped and commodious store of the United Cut Flower Company, 111 West 28 street, which arrangement takes effect June 1. This move is a clear manifestation of the trend of the times toward practical economy and the attainment of maximum efficiency, while at the same time bringing the overhead expenses down to a minimum.

WASHINGTON.

Horticulturist and assistant horticulturist are wanted in the Bureau of Plant Industry. Salary of horticulturist is \$2100 to \$2500 a year. Salary of assistant is \$1800 to \$2000. Duties of the position include work investigating improvement of potato raising. Botanical artist is wanted in the Bureau of Plant Industry. Salary \$900 a year. Both men and women are eligible.

VISITORS' REGISTER.

Chicago—Thos. Kane, with Petersons' Floral Co., Kansas City, Mo.; W. J. Vesey, Jr., Fort Wayne, Ind.; W. A. Toole, Baraboo, Wis.

Philadelphia — Watson Woodruff, Orange, Conn.; Harry O. May, Summit, N. J.; S. F. Leonard, Chicago, Ill.; Mr. Canfield, Shenandoah, Pa.; Harry Fries, Lancaster, Pa.

PEONY IDENTITIES

The following communication was received by the Secretary of the American Peony Society not long ago from Messrs. Kallen and Lunnemann of Boskoop, Holland:

"Peony President Taft. This variety was placed on the market by Messrs. Blaauw & Co., of Boskoop, who obtained it as an unnamed variety from France, we believe.

From observations made this summer it seems to us that President Taft is identical with Reine Hortense."

They then request that those who possess both varieties should make further careful comparison of the two sorts and report their findings. There are already several of our growers who share the conviction of Messrs. Kallen and Lunnemann as to their identity; yet in some American lists they are offered as distinct varieties. We should be able to get this question cleared up without delay. I may add that there is a very pretty color plate of Reine Hortense in Mrs. Harding's new book.

Your ad. on Hydrangeas was very effective and has helped me to dispose of two houses of Hydrangeas for Memorial Day. We have had a great many letters telling us how fine the stock is.

Thanking you, I am

Yours very truly,

A. L. MILLER.

PRECAUTIONS AGAINST A NEMATODE DISEASE.

Greenhouse men in the northwest, particularly in the New England States, New York, Pennsylvania, and New Jersey, are experiencing considerable losses as a result of the occurrence and continued spread of a little known disease. The malady is due to nematodes, or eelworms, one or more species of *Aphelenchus*, which have been found in this country infecting violets, strawberries, a number of varieties of begonias, and many species of ferns. In Europe, where it has been known for many years, the disease has been reported as attacking forty-eight different species of plants.

On ferns, begonias, and other plants the trouble affects the leaves, causing them to become discolored—usually brown—in definite areas, which may increase so as to include the entire leaf. It may also produce on strawberries and violets a slight swelling and distortion of the buds, crowns, and leaves. Diseased plants may be killed or have their market value, quality, and appearance impaired.

The cause of the disease, thread-like nematodes, from 1-30 to 1-50 of an inch in length, can be seen with slight magnification when a small piece of infected leaf or tissue is teased apart in a few drops of water on glass. By the aid of a compound microscope, the egg, larval, and adult stages of the parasite may be observed within the unbroken diseased leaves, which they enter through wounds or air pores. Active larvae and adults can easily emerge from leaves through these natural openings, stomata, and may be carried to other plants, which they subsequently infect.

The following measures suggested by specialists of the Bureau of Plant Industry, United States Department of Agriculture, as methods of control have proven helpful in preventing and in reducing losses from the disease:

1. Separate the diseased from the healthy plants; then remove from the former and burn all infected parts. In this way the chance of infection in the healthy plants is considerably lessened and some of the diseased plants can be freed from the pest.

2. Allow as much ventilation and aeration as possible, and avoid wetting the foliage, as the nematode is readily spread by water.

3. Propagate by seeds or by the use of parts or all of healthy plants, using soil that has been sterilized by the use of steam or by other means.

4. Avoid all stock from infested nurseries and regions, and use disease-resistant plants whenever possible.

5. Partial success in destroying the nematodes by submerging ferns in water at a temperature of 50 degrees C. (122 degrees F.) for five minutes has been reported.

Rutherford, N. J.—Ed. Roehrs is in the hospital in Newark where he underwent an operation for appendicitis on Tuesday of this week. He is reported as progressing satisfactorily.

FORCED FRUITS.

Progressive florists are constantly awake to the desirability of being able to provide something new or different from the ordinary for fastidious customers when any special occasion



EARLY RIVERS NECTARINE
Grown by Sam Murray, Kansas City, Mo.

comes up for decorative work. We understand that little trees bearing ripe fruit, grape vines, etc., are frequently used for dinner table centre pieces abroad but such things are rarely seen in this country. Sam. Murray of Kansas City has grown such successfully and used them to advantage on occasions when something exclusive was wanted.

PUBLICATION RECEIVED.

American Peony Society Bulletin, No. 4. A valuable 36-page bulletin. The contents are as follows:

Report of Directors' Meeting; Premium List for 1917 Show; A Pronouncing List of Peony Names (14 pages); A Letter from M. Lemoine; How to Exhibit Peonies; Notes Towards the History of the Peony in America—I. From Mr. C. S. Harrison; Mrs. Harding's Book; Notes from the Secretary's Office.

NEW CORPORATION.

East Liverpool, O.—Chal Petersen Co., florists; capital stock, \$25,000. Incorporators, Chal Petersen, Ruth Petersen, Gwendolyn Lisk, Sara Golden and John W. Golden.

Obituary

Charles H. Fischer.

Charles H. Fischer, a flower grower of Winfield, N. Y., died suddenly of heart trouble on May 17, aged 50 years. He is survived by his wife, two sons and two daughters. He was a man of excellent character and repute.

Mrs. Carl Wilk.

Marie Wilk, wife of Carl Wilk, a retired florist, died on May 24, at her home, 220 Clarkson avenue, Flatbush, Brooklyn, N. Y. Funeral services were held on Sunday. Interment at Evergreen Cemetery. She is survived, in addition to her husband, by five daughters and one son. She was born in Germany sixty-five years ago and had lived in Brooklyn for fifty years.

Alexander Siegel

We regret to announce the death of Alexander Siegel, who passed away on May 25, after a long and painful illness. He was for several years proprietor of the floral department at the Wolf Wilson Drug Co., St. Louis. He was born in Cincinnati and was 63 years old when he died. He was a member of the St. Louis Florist Club. The funeral was largely attended and numerous floral offerings were sent. Alex. Siegel was a good fellow in every way and will be missed.

David I. Saunders.

David I. Saunders, a pioneer florist of Washington, D. C., having been engaged in that business for nearly a half century, died on May 18 at his residence, 2203 2d street northwest. Mr. Saunders, who was sixty-nine years old, was born in New Haven, Conn., January 16, 1849. He was the eldest son of the late William Saunders, who was connected for many years with the Department of Agriculture and superintendent of gardens and grounds. Besides his wife, Mr. Saunders is survived by four sons, a daughter, sister and brother.

Camden, Me.—There was a large and very attentive attendance at the last regular meeting of the Garden Club on Tuesday afternoon at the Y. M. C. A. J. C. Murdock, gardener at the Chatfield estate, spoke on "The Home Garden," confining himself almost exclusively to the vegetable garden and he spoke most interestingly. He gave many valuable points on the care of the garden and what to do for specific crops.

H. BAYERSDORFER & CO.
Manufacturers and Importers
1129 Arch St. PHILADELPHIA, PA.
A Full Line of Bridal Accessories for the June Wedding Decorations
STOCK UP NOW
THE LEADING FLORISTS' SUPPLY HOUSE OF AMERICA

DOUBLE BLUE CORN FLOWERS

The Best we have had this Season.
Special price in thousand lots.

THE LEO NIESSEN CO.

Wholesale Florists

1201-05 Race Street,

PHILADELPHIA, PA.

TRY
Horticulture's Advertisers
FIRST
Before Looking Elsewhere
Tell Them You Did So And
They'll Reciprocate

EDWARD REID WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.

CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

H. M. ROBINSON & CO. BOSTON'S FOREMOST

Wholesale and Commission Florists

32 Otis Street,

2 Winthrop Square

BOSTON, MASS.

Telephone 2618-2617-2616, Main.

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$2.00. 50,000...\$8.75. Sample free.
For sale by dealers.

E. G. HILL CO.

Wholesale Florists

RICHHMOND, IND.

Please mention Horticulture when writing.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

264 RANDOLPH ST., DETROIT, MICH.

The House for Quality and Service

ZECH & MANN

We are Wholesale Florists Doing
a Strictly Wholesale Business

30 East Randolph Street, CHICAGO



POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut Flower Market

Daily consignments from
leading growers

Full line of Florists'
Supplies

Write for quotations before
ordering elsewhere

262B DEVONSHIRE ST., BOSTON, MASS.
Telephone, Main 6267-6268

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON May 31		ST. LOUIS May 28		PHILA. May 28	
Roses						
Am. Beauty, Special.....	15.00	to 25.00	25.00	to 30.00	20.00	to 25.00
" " Fancy and Extra.....	10.00	to 15.00	15.00	to 20.00	12.00	to 15.00
" " No. 1 and culls.....	3.00	to 10.00	5.00	to 10.00	3.00	to 10.00
Russell, Euler, Mock.....	1.00	to 12.00	5.00	to 12.00	3.00	to 20.00
Hadley.....	2.00	to 18.00	5.00	to 12.00	3.00	to 10.00
Arenberg, Hoosier Beauty.....	.50	to 6.00	3.00	to 8.00	3.00	to 10.00
Ward.....	.50	to 6.00	2.00	to 4.00	3.00	to 6.00
Killarney, Radiance, Taft.....	.50	to 6.00	2.00	to 5.00	3.00	to 10.00
Ophelia, Sunburst, Hillingdon.....	.50	to 8.00	3.00	to 6.00	3.00	to 10.00
Key.....	1.00	to 6.00	.....	.....	3.00	to 10.00
Carnations	1.00	to 4.00	1.50	to 3.00	2.00	to 6.00
Cattleyas	30.00	to 75.00	.....	.....	35.00	to 60.00
Dendrobium formosum.....	.....	to 50.00	.....	.....	.....	.....
Lilies, Longiflorum	4.00	to 8.00	10.00	to 12.50	6.00	to 10.00
Lilies, Speciosum.....	.....	.....	.....	.....	.....	.....
Callas	4.00	to 8.00	.....	to 10.00	8.00	to 10.00
Lily of the Valley.....	.50	to 4.00	4.00	to 6.00	1.00	to 6.00
Snapdragon	1.00	to 6.00	4.00	to 6.00	2.00	to 10.00
Daffodils.....	.50	to 1.00	.....	.....	.....	.....
Narcissi, Paper White.....	.....	.....	.....	.....	.....	.....
Roman Hyacinths.....	.....	.....	.....	.....	.....	.....
Freesia.....	.....	.....	.....	.....	.....	.....
Tulips	2.00	to 4.00	.....	.....	2.00	to 3.00
Calendulas.....	.50	to 2.00	.....	.....	2.00	to 3.00
Sweet Peas.....	.25	to .50	.25	to .50	.40	to 1.00
Violets.....	.....	.....	.....	.....	.....	.....
Marguerites.....	.50	to 1.00	.50	to 1.00	.50	to 1.50
Gardenias	2.00	to 20.00	.....	.....	.....	.....
Adiantum.....	.50	to 1.00	.....	to 1.00	.75	to 1.50
Smilax	15.00	to 25.00	.....	to 15.00	25.00	to 30.00
Asparagus Plumosus, & Spreng. (100 Bchs.).....	25.00	to 35.00	25.00	to 35.00	25.00	to 50.00

WILLIAM F. KASTING Co.

Wholesale Florists

568 570 WASHINGTON STREET - BUFFALO, N. Y.

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER of

CUT FLOWERS

Flower Market Reports

A very unusual Memorial Day experience was had by the Boston florists. Of outdoor flowers there were practically none. Of indoor product there was the heaviest supply ever known for this occasion. Some growers, not satisfied to rely on their regular cut, resorted to cold storage and the resultant influx, especially of roses was something enormous. Carnations, also, were subjected to the hold-up process and many dilapidated shipments were in evidence. There were mountains of candytuft, sweet peas, lilies, feverfew, astilbe, yellow daisies and late daffodils, and it was out of the possibilities to dispose of it all to advantage, yet the sales at wholesale must have far exceeded that of any previous year notwithstanding the very inclement weather conditions prevailing for the two days preceding the holiday. Shipping trade was very heavy and far overtopped the local business. The sale of artificial wreaths was phenomenal, dry goods stores, department stores and other concerns being heavily in it in competition with the retail florists. And be it recorded that of the considerable advertising space occupied in the daily newspapers by the retail florists every line of same so far as we noticed was devoted to the exploiting of artificial wreaths and not one word to fresh flowers.

When this reaches HORTICULTURE'S readers, Memorial Day will have passed and unless something unforeseen transpires it will be written up as one of the best we have ever known. Like all the florists' big days this year, some new impetus seems to have been given it and business is limited only by the amount of stock obtainable. Friday and Saturday were very busy days. Sunday, wholesale houses were open all day and every one in them on the jump. Monday, shipping was so great that it was hard to find time to wait on the home trade. There was some difference in the capacity of the various houses, some having more stock than others, but probably all turned down more or less orders, especially for peonies and colored carnations. If the sun had shown and the temperature been higher, the stock coming into the market would unquestionably have been doubled. Peonies are decidedly backward, the market having but few for the last of May. All kinds of roses are coming in quantities that may be



PEONIES

Cool weather has been a wonderful help to the quality of the Peonies. Our local stock is probably the choicest we have ever handled, which we can supply in any quantity, all colors.

\$30, \$40, \$50 per 1000

\$4, \$5, \$6 per 100

Special prices in quantity.

S. S. PENNOCK-MEEHAN CO.

THE Wholesale Florists of PHILADELPHIA

NEW YORK PHILADELPHIA
117 W. 28th St. 1608-1620 Ludlow St.

BALTIMORE
Franklin & St. Paul Sts.

WASHINGTON
1216 H St. N. W.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI May 21		CHICAGO May 25		BUFFALO May 28		PITTSBURG May 15	
Roses								
Am. Beauty, Special	35.00	to 40.00	35.00	to 40.00	20.00	to 25.00	20.00	to 25.00
" " Fancy and Extra	20.00	to 30.00	20.00	to 30.00	15.00	to 20.00	12.00	to 15.00
" " No. 1 and culls	8.00	to 15.00	4.00	to 8.00	3.00	to 8.00	0.00	to 10.00
Russell, Euler, Mock	6.00	to 15.00	3.00	to 25.00	3.00	to 12.00	5.00	to 15.00
Hadley	6.00	to 15.00	0.00	to 10.00	5.00	to 8.00	0.00	to 10.00
Arenberg, Hoosier Beauty	5.00	to 12.00	3.00	to 10.00	4.00	to 10.00	6.00	to 12.00
Ward	4.00	to 8.00	3.00	to 10.00	3.00	to 5.00	0.00	to 12.00
Killarney, Radiance, Taft	4.00	to 10.00	3.00	to 10.00	2.00	to 6.00	4.00	to 10.00
Phelia, Sunburst, Hillingdon	0.00	to 12.00	3.00	to 12.00	3.00	to 8.00	6.00	to 12.00
Key	0.00	to 10.00	0.00	to 10.00	0.00	to 10.00	0.00	to 10.00
Carnations	4.00	to 6.00	2.00	to 6.00	2.00	to 3.00	2.00	to 3.00
Cattleyas	75.00	to 75.00	75.00	to 75.00	40.00	to 50.00	50.00	to 75.00
Dendrobium formosum	10.00	to 12.50	10.00	to 12.50	0.00	to 10.00	10.00	to 12.00
Lilies, Longiflorum	0.00	to 10.00	0.00	to 10.00	4.00	to 5.00	0.00	to 10.00
Lilies, Speciosum	8.00	to 10.00	8.00	to 10.00	8.00	to 10.00	0.00	to 10.00
Callas	0.00	to 10.00	0.00	to 10.00	0.00	to 10.00	0.00	to 10.00
Lily of the Valley	0.00	to 10.00	4.00	to 5.00	6.00	to 7.00	6.00	to 8.00
Snapdragon	6.00	to 12.50	4.00	to 8.00	4.00	to 6.00	0.00	to 8.00
Daffodils	2.00	to 3.00	2.00	to 3.00	1.00	to 2.00	1.00	to 2.00
Narcissi Paper White	0.00	to 10.00	0.00	to 10.00	0.00	to 10.00	0.00	to 10.00
Roman Hyacinths	0.00	to 10.00	0.00	to 10.00	0.00	to 10.00	0.00	to 10.00
Freesia	3.00	to 4.00	3.00	to 4.00	1.00	to 2.00	3.00	to 4.00
Tulips	2.00	to 3.00	2.00	to 3.00	2.00	to 3.00	2.00	to 4.00
Calendulas	0.00	to 1.00	0.00	to 1.00	0.00	to 1.00	0.00	to 1.00
Sweet Peas	0.00	to 1.00	0.00	to 1.00	0.00	to 1.00	0.00	to 1.00
Violets	0.00	to 1.00	0.00	to 1.00	0.00	to 1.00	0.00	to 1.00
Marguerites	0.00	to 1.00	0.00	to 1.00	0.00	to 1.00	0.00	to 1.00
Gardenias	15.00	to 20.00	0.00	to 10.00	0.00	to 10.00	0.00	to 10.00
Adiantum	0.00	to 1.00	0.00	to 1.00	0.00	to 1.00	0.00	to 1.00
Smilax	0.00	to 15.00	15.00	to 25.00	15.00	to 20.00	15.00	to 20.00
Asparagus Plu. & Spren. (100 Bhs.)	25.00	to 50.00	25.00	to 50.00	25.00	to 35.00	40.00	to 60.00

more than sufficient next week, but this week are inadequate to meet the heavy demand. There are many sweet peas and all the colors of iris, southern gladioli, snapdragons and tulips as well as many other miscellaneous flowers.

Memorial Day business is excellent. The cut of outdoor stock is rather short but a good supply of indoor material is coming in,

and this should be able to take care of the demand in good fashion. The peony cut falls short of the standard cut of other years for Memorial Day. Roses and carnations are in a heavy supply. Lilies are plentiful and prove good property for this holiday. Excellent gladioli and snapdragon are offered. Sweet peas are in fair supply and have a good market. Callas, mimosas and corn flowers form a part of the general stock.

(Continued on page 716)



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For the Retailer or for the Grower
KENNICOTT BROS. CO.
Wholesale Cut Flowers

H. B. KENNICOTT, President.

J. E. POLLWORTH, Sec'y and Gen'l Mgr

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Choice Cut Flowers
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Telephones: 2200, 2261, Madison Square.

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Wholesale Commission Florists
55 and 57 West 26th Street
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Farragut New York

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Wholesale Florist
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Call and inspect the Best Establishment
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PHONE / 608 / FARRAGUT NEW YORK
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WHOLESALE FLORISTS

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Consignments Solicited
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Ferns, Mosses, Wild Smilax, Galax,
Leucothoe, Palmetto, Cycas, both fresh
cut and prepared.
Laurel, Hemlock, all Decorative Evergreens.
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5833

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Brooklyn's Foremost and Best
WHOLESALE COMMISSION HOUSE
A First Class Market for all CUT FLOWERS
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A full line of Choice Cut Flower Stock for all purposes.
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ALBANY CUT FLOWER EXCHANGE

THOMAS TRACEY, Mgr. 611 Broadway, ALBANY, N. Y.
WHOLESALE ONLY
SAVE TIME AND MONEY BY SENDING YOUR ORDERS TO US
Prices Right. Consignments Solicited. Telephone Connection

Centrally Located, The Hub of the Flower Market Section

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ORCHIDS - - GARDENIAS

HEADQUARTERS for the entire output of the
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PAUL MECONI — Wholesale Florist — NEW YORK
Telephone Nos. 3864 and 8364 Madison Square 57 WEST 26th STREET

A GOLD MEDAL is not expected by us for doing our duty by our consignors and customers
We have 22 years' experience behind us
FANCY GRADE ORCHIDS, SEPTEMBER MORN, AMERICAN BEAUTY, PRIMA
DONNA AND ALL OTHER ROSES, LILIES, CARNATIONS, VIOLETS,
ASPARAGUS AND SMILAX and all other Seasonable Flowers.

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111 West 28th Street, NEW YORK
Phones: Farragut 558, 2036 and 2037

NEW YORK QUOTATIONS PER 100. To Dealers Only

ROSES AND CARNATIONS	Last Half of Week ending May 26 1917		First Half of Week beginning May 28 1917	
American Beauty, Special	15.00	to 20.00	15.00	to 25.00
" " Fancy and Extra	15.00	to 20.00	12.00	to 15.00
" " No. 1 and culls.	4.00	to 8.00	3.00	to 6.00
Russell, Euler, Mock	1.00	to 10.00	1.00	to 10.00
Hadley	3.00	to 20.00	2.00	to 25.00
Arenberg, Hoosier Beauty .....	.50	to 6.00	.50	to 6.00
Ward .....	.50	to 6.00	.50	to 6.00
Killarney, Radiance, Taft .....	.50	to 6.00	.50	to 6.00
Ophelia, Sunburst, Hillingdon .....	.50	to 6.00	.50	to 6.00
Key .....	.50	to 6.00	.50	to 6.00
Carnations .....	.50	to 2.50	.50	to 3.00

WALTER F. SHERIDAN

Wholesale Commission Dealer in
CHOICE CUT FLOWERS
133 West 28th Street, New York
Telephone—3532-3533 Madison Square

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WHOLESALE FLORIST
Methods Fair and Liberal. Relations
Satisfactory and Profitable.
51 W. 28th Street, New York
Telephones, 1623-24-25 Mad. Sq.

Frank H. Traendly Charles Schenck

TRAENDLY & SCHENCK

Wholesale Florists
436 6th Avenue, Between 26th and 27th Sts., New York
Telephones: 797, 798, 799 Farragut
Consignments Solicited

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115 WEST 25TH STREET
New York
Tel., Farragut 5413-5891
EVERYTHING IN CUT FLOWERS
CONSIGNMENTS SOLICITED

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WHOLESALE FLORISTS

55-57 West 26th Street
Telephones, 13—8510 Madison Square Consignments Solicited
MAURICE L. GLASS, Treasurer

Flower Market Reports

(Continued from page 715)

Full details of the New YORK Memorial Day business here are not yet available at this office, but in general the situation can be described as one of enormous supply of indoor flowers with demand insufficient to satisfactorily consume them. Roses and carnations were in inordinate supply and dealers were glad to sell, in most cases, at low figures, although some specialties of wide repute brought top figures. The business done by suburban and cemetery florists was unprecedentedly large, both for plants and flowers, but there was stock enough and to spare. Many flowers usually filling a place of prominence in the Memorial Day menu were conspicuously absent in the market this year, but there was plenty of other material to take their place. The cut of roses was very heavy. Outdoor lily of the valley was abundant and nobody seemed to care about it.

Trade has been PHILADELPHIA pretty fair with prices ruling rather lower all along the line. The situation improved a little on Friday and Saturday on account of the approaching holiday and advance bookings. Roses are plentiful and the quality unusually good for the season. The same may be said of carnations and the supplies of same are more abundant than for some time past. Sweet peas are still fine but moving a little slow. Memorial Day trade started in briskly on Monday, the 28th. Local peonies are not in, which is making business in other lines better.

Judging from prospects at the time of writing, Memorial Day business will be surpassingly good this year, and according to the way orders are coming in, all lacking to make it the banner year in the history of the local trade, will be the scarcity occasioned by the daily showers and attendant dark skies and chilly atmosphere. The peony situation has fulfilled last week's prediction and there is not a single home-grown bloom. The few peonies that have come in from the South are of inferior quality. Green decoration stuff is scarce, Asparagus plumosus being especially so. Roses, lilies and carnations are coming in quite well, the quality being all that could be desired. Even American Beauties are abundant and selling well. Prices continue to hold up well.

Trade has continued ROCHESTER very active during the week, with prices about as usual. Bedding stock does not move over-fast. Everything outside is at a standstill. A few good sized weddings have taken place and have helped to work off large quantities of stock. Roses are plentiful and the shorter grades clear at low figures.

PATRICK WELCH, WHOLESALE FLORIST
 262 DEVONSHIRE STREET, BOSTON, MASS.
 American Beauties, Orchids, Valley, Carnations. All the novelties in the Cut Flower Market furnished on short notice. Prices quoted on application. No retail orders accepted. Flowers shipped out of Boston on early trains.
 STORE OPEN FOR BUSINESS AT 6 A. M. TELEPHONE MAIN 2698.

HERMAN WEISS WHOLESALE FLORIST
 Can handle shipments of growers' product satisfactorily. Would like to hear from Growers of Snapdragons and Sweet Peas, etc., for the New York trade.
 130 West 28th St., NEW YORK
 Tel. Farragut 3066

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending May 26 1917		First Half of Week beginning May 28 1917	
Cattleyas	20.00	to 50.00	20.00	to 50.00
Dendrobium formosum	.....	to 50.00	.....	to 50.00
Lilies, Longiflorum	2.00	to 6.00	2.00	to 6.00
Lilies, Speciosum	2.00	to 6.00	2.00	to 6.00
Callas	3.00	to 6.00	3.00	to 6.00
Lily of the Valley	1.00	to 5.00	1.00	to 5.00
Snapdragons	1.00	to 5.00	1.00	to 5.00
Daffodils	.50	to 1.50	.50	to 1.50
Spanish Iris	1.00	to 3.00	1.00	to 3.00
Roman Hyacinths	.....	to .....	.....	to
Freesia	.....	to .....	.....	to
Tulips	1.00	to 2.00	1.00	to 2.00
Calendulas	.50	to 1.00	.50	to 1.00
Sweet Peas	.15	" 1.00	.15	to .75
Violets	.....	to .....	.....	to
Marguerites	1.00	to 2.00	1.00	to 2.00
Gardenias	1.00	to 20.00	1.00	to 20.00
Adiantum	.50	to 1.00	.50	to 1.00
Smilax	15.00	to 20.00	15.00	to 20.00
Asparagus Plumosus, & Sprengeri (100 bunches)	15.00	to 25.00	15.00	to 25.00

J. K. ALLEN, WHOLESALE COMMISSION FLORIST
 Always Ready to Receive Consignments and Can Market Them Satisfactorily. Wanted Specially, Early Peonies, Gladioli, etc., for Spring Trade.
 A Clean Record For Thirty Years
 118 West 28th Street, - - - NEW YORK
 Telephones: 167 and 3058 Farragut

COMMISSION DEALER
FRANK MILLANG
 HOME GROWN ASPARAGUS CUTFLOWERS
 IN ANY QUANTITY
 55-57 W. 26th St., NEW YORK

Very fine quality is seen in Hadley, Russell and Ophelia. Lillies are in abundance just now. Large quantities of German stock in pink, white and lavender reach us and clear easily. Yellow Spanish iris sells well, carnations are becoming soft and somewhat inferior. Sweet peas are in good supply and the demand is according. Tulips are plentiful and sell well.

At time of writing, carnations, sweet peas and roses have stiffened in price, of course, owing to Memorial Day demand, which is expected to be heavy. Fancy stock in roses is bringing good prices.

Scranton, Pa. — A pretty spring floral exhibition was given by the garden department of the Century Club on Thursday, May 17. Chester J. Hunt, of Little Falls, N. J., was a large exhibitor of tulips and narcissi.

UNITED CUT FLOWER CO., INC.
 Flowers Sold on Commission
 Consignments of Good Stock Solicited
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Established 1888 Tel. 551 Farragut
GUNTHER BROS.
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 We Solicit Consignments of New England Grown Novelties.

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 Cut Flowers of All the Leading Varieties in their Season.
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 BOUND BROOK, N. J.

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 122 West 25th St., New York
Florists' Supplies
 We manufacture all our Metal Designs, Baskets, Wire Work & Novelties and are dealers in Decorative Glassware, Growers' and Florists' Requisites.

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APHIS PUNK

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ASPARAGUS

Asparagus Plumosus Seedlings, \$1.00 per 100, \$5.00 per 1000. Ready May 1st. COL-
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Henderson's Invincible, a fine Aster for cutting and trade pullers for your customers' own planting; separate colors, strong, transplanted plants, prompt shipment; \$5.00 per 1000. Cash. BRILL
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Wood Bros., Fishkill, N. Y.
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A. Leuthy & Co., Roslindale, Mass.
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Geraniums, Nutt, Ricard, Viand, Buchner, 4-in., \$5.00 per 100. Nutt and Rose Scented, 3½-in., \$6.00 per 100. Germany Ivy, Canna Robusta, 3½-in., \$6.00 per 100. Dracaena Indivisa, 3-in., \$7.00 per 100. Geranium Sallerol, Coleus Trailing Queen, Begonia Vernon, Blue Ageratum, White Daisy, 3-in., \$5.00 per 100. White Daisy, 4-in., \$15.00 per 100. Cash. F. SOKOL, College Street, Worcester, Mass.

BEGONIAS

BEGONIA LORRAINE.
2¼-in. pots, \$14.00 per 100; \$120.00 per 1000.
BEGONIA MRS. J. A. PETERSON.
2¼-in. pots, \$20.00 per 100; \$180.00 per 1000.
JULIUS ROEHR'S COMPANY,
Rutherford, N. J.

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Bulbs of all descriptions. Write for prices.
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Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 1000 for 35c.; 3000 for \$1.00 post-paid. I. L. PILLSBURY, Galesburg, Ill.

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CYCLAMEN—Best strain, separate colors, or mixed, 2¼ in. pots, \$7.50 per 100; \$60.00 per 1000. J. H. FIESSER, North Bergen, N. J.

CYCLAMENS.

Best strain separate colors or mixed.
3-in. pots, \$10.00 per 100; \$90.00 per 1000.
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Rutherford, N. J.

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Peony Dahlia Mrs. Frederick Grinnell.
Stock For Sale.
JOHN P. ROONEY, New Bedford, Mass.

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For Fall or Spring delivery. Wholesale and Retail. Send for Catalogue. NORTHBORO
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NEW PAEONY DAHLIA

John Wanamaker, Newest, Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to
PEACOCK DAHLIA FARMS, Berlin, N. J.

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Choice Flowering and Foliage Plants.
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Eastern Chemical Co., Boston, Mass.
Imp. Soap Spray.
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Lemon Oil Insecticide.
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Iris, German, 10 named varieties, \$2.00
per 100. Japanese, white, purple, mixed,
\$5.00 per 100. AMON HEIGHTS NUR-
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NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc.
Hatboro, Pa.
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NIEREMBERGIAS

Henry Schmidt, No. Bergen, N. J.
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NIKOTEN

Nicotine Mfg. Co., St. Louis, Mo.
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NIKOTIANA

Aphine Mfg. Co., Madison, N. J.
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W. & T. Smith Co., Geneva, N. Y.
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The D. Hill Nursery Co., Dundee, Ill.
Hill's Evergreens.
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In writing to Advertisers kindly mention Horticulture

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Hardy, Northern Grown Stock.
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Boblink & Atkins, Rutherford, N. J.
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Cottage Gardens Nurseries, Inc.,
Eureka, Calif.
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NUT GROWING

The Nut-Grower, Waycross, Ga.
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ORCHID PLANTS

Sanders, St. Albans, England, also
Walter Gott, McAlpine Hotel, N. Y. City.
Orchid Hybrids.
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Beechwood Heights Nurseries,
Bound Brook, N. J.
Importers and Growers of Orchids.
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Julius Roehrs Co., Rutherford, N. J.
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Lager & Hurrell, Summit, N. J.
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HASSALL & CO., Orchid Growers and
Raisers, Southgate, London, England. Im-
mense stock of Cattleyas.

PAINTS AND PUTTY

The Dwelle-Kaiser Co., Buffalo, N. Y.
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Metropolitan Material Co., Brooklyn, N. Y.
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PANSY SEED

Michell's Seed House, Philadelphia, Pa.
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PETUNIAS

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
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PEONIES

Peonies. The world's greatest collection.
1200 sorts. Send for list. C. BETSCHER,
Canal Dover, O.

Complete manuals on the Peony, Iris and
Phlox. 25 cents each in stamps. C. S.
HARRISON, York, Nebraska.

PHLOX

Phlox, white or pink, \$3.00 per 100.
AMON HEIGHTS NURSERIES, Camden,
N. J.

PECKY CYPRESS BENCHES

Metropolitan Material Co., Brooklyn, N. Y.
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A. T. Stearns Lumber Co., Boston, Mass.

PIPE AND FITTINGS.

Kroeschell Bros. Co., Chicago.
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King Construction Company,
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
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Metropolitan Material Co., Brooklyn, N. Y.
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PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

PLANT AND BULB IMPORTS

Chas. Schwake & Co., New York City.
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August Rolker & Sons, New York City.
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McHutchison & Co., New York City.
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POT WASHER

Kelitch & Co., Cleveland, Ohio.
The "Presto" Pot Washer.
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PRIMULAS

William Slim, Cliftondale, Mass.
Hybrid Yellow Polyanthus.
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RHODODENDRONS

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RIBBONS AND CHIFFONS

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W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
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A. N. Pierson, Inc., Cromwell, Conn.
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Bay State Nurseries, North Abington, Mass.
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ROSES, CANNAS AND SHRUBS.
THE CONARD & JONES COMPANY,
WEST GROVE, PA.

SASH

Metropolitan Material Co., Brooklyn, N. Y.
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SEASONABLE PLANT STOCK

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
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SEEDS

Carter's Tested Seeds.
Seeds with a Pedigree.
Boston, Mass., and London, England.
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Joseph Breck & Sons, Boston, Mass.
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Gold Medal Cyclamen Seed.
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Amt. C. Zvolanek, Lompoc, Cal.
Winter Flowering Sweet Pea Seed.
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Kelway & Son, Langport, England.
Seeds, Selected Strains.
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W. E. Marshall & Co., New York City.
Seeds, Plants and Bulbs.
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August Rolker & Sons, New York City.
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Burnett Bros., 98 Chambers St., New York.
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Seeds and Seed Service.
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Roman J. Irwin, New York City.
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Garden Seeds.

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Seeds, Bulbs, Implements.
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Fottler, Fisk, Rawson Co., Boston, Mass.
Seeds for the Florist

SHELF BRACKETS

Metropolitan Material Co., Brooklyn, N. Y.
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SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. LAGER
& HURRELL, Summit, N. J.

SWEET PEA SEED

Ant. C. Zvolanek, Lompoc, Calif.
Gold Medal of Honor Winter Orchid Sweet
Peas.
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TREE SURGERY

Davey Tree Expert Co., Kent, Ohio.

VASES

H. Bayersdorfer & Co., Philadelphia, Pa.
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VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.

For page see List of Advertisers.

Celery plants, Golden Self Blanching
(French strain), also the grand new Easy
Blanching variety, which is easy to grow;
fine plants, ready for the field, \$2.00 per
1000, or \$8.75 for 5000. Cash. BRILL
CELERY GARDENS, Kalamazoo, Mich.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
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The John A. Evans Co., Richmond, Ind.
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VERMICIDES

Aphine Mfg. Co., Madison, N. J.
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VINCAS

Vinca variegata from 4 in. pots, price
\$10.00 to \$15.00 per hundred.
WM. CAPSTICK, Auburndale, Mass.

VINES

Vinca variegata, 3 1/2 and 4 inch pots, \$10,
\$12 and \$15 per 100. 5 inch pots, \$18, \$20
and \$25 per 100. Cash with order, please.
CHRISTOFFERSON BROS., North Beverly,
Mass.

WHEAT SHEAVES

H. Bayersdorfer & Co., Philadelphia, Pa.
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WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
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WIREWORK

Reed & Keller, New York City.
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WILLIAM E. HEILSCHER'S WIRE
WORKS, 264 Randolph St., Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
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Baltimore

The S. S. Pennock-Meehan Co., Franklin
and St. Paul Sts.
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For List of Advertisers See Page 699

Est. 1765

Pot Makers for a
Century and a Half**HEWS****STRONG
RED
POROUS****POTS**

Inc. 1904

World's Largest
ManufacturersStandard, Azalea, Bulb, Orchid, Fern, Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.Write for Catalogue
and Discounts**A. H. HEWS & CO., Inc., Cambridge, Mass.**Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.**WHOLESALE FLORISTS****Boston**Welch Bros. Co., 226 Devonshire St.
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Winthrop Sq.
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Young, Jr., Prop.
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ton St.
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26th and 27th Sts.
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W. R. Siebrecht, 114 West 28th St.

Herman Weiss, 130 West 28th St.
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York City.
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Ludlow St.
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1615 Ranstead St.**Richmond, Ind.**E. G. Hill Co.
For page see List of Advertisers.**Rochester, N. Y.**George B. Hart, 24 Stone St.
For page see List of Advertisers.**Washington**The S. S. Pennock-Meehan Co., 1216 H St.,
N. W.
For page see List of Advertisers.**New Offers In This Issue****CARNATIONS AND CHRYSANTHE-
MUMS.**Peirce Farm Greenhouses, Topsfield, Mass.
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DING PLANTS.**E. C. Rogers, Roseland, Mass.
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For page see List of Advertisers.**MOTOR MOWERS.**Coldwell Law, Mower Co., Newburgh, N. Y.,
and Chicago, Ill.
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For page see List of Advertisers.**ROSES.**H. T. May, Hingham, Mass.
For page see List of Advertisers.**TREES, SHRUBS, VINES and
HERBACEOUS PERENNIALS**

By JOHN KIRKEGAARD

Formerly Assistant to Director of the Royal
Botanical Gardens, Copenhagen, Denmark.
Latterly Twenty Years in American For-
estry and Botanical Work.Assisted by DR. H. T. FERNALD,
Professor of Entomology Massachusetts
Agricultural College and Entomologist,
Massachusetts Agricultural Experiment
Station,

and PROF. E. A. WHITE,

Professor of Floriculture, New York State
College of Agriculture at Cornell Univer-
sity.**A Great Book A Beautiful Book**
A Comprehensive Book
A Practical Book By Practical Men
There Is No Other Book Like It410 Pages. Planting Plans. Tabular De-
scription and Classification of Species. 59
Full-Page Illustrations in Tone. Authorita-
tive Articles on Many Subjects.**New Edition**

BEAUTIFULLY BOUND IN CLOTH

Price only \$2.50 net. Mailing
Price, \$2.71. Money-Back
GuaranteeOrder it from HORTICULTURE
147 Summer St., Boston**THE NUT-GROWER**The unique monthly publica-
tion which furnishes reliable
and interesting up-to-date in-
formation regarding the value
of pecans and other edible nuts
and how to grow them for profit.

Subscription, \$1.00 per year

Sample Copy Free

THE NUT-GROWER

No. 2 Francis St.

WAYCROSS, GA.

In writing to Advertisers kindly mention Horticulture

A QUESTION OF PIPING

Editor HORTICULTURE:

Please let me hear from you through your columns, the size and number of pipes required to keep at 65 degrees, a house 26 by 140, 4 ft. to eaves, 11 ft. to ridge.

Thanking you in advance, I remain,
Washington, D. C. E. F. G.

In answer would say the party does not state whether he wishes the house heated by hot water or by steam. If heated by hot water it would require 1,075 feet of 2" pipe; and 640 feet of 1½" pipe if heated by steam, to keep the house at a temperature of from 65° to 70°. A house constructed by a local contractor is usually not as tight as it should be, and we have, therefore, figured on a sufficient quantity of pipe to maintain the above mentioned temperature.

GREENHOUSES BUILDING OR CONTEMPLATED.

Aurora, Neb.—F. A. Davidson, addition.

Pride's Crossing, Mass.—A. C. Burage, two houses.

Ansonia, Conn.—Shelton Floral Co., additions contemplated.

Independence, Mo.—Eric Frandsen, three houses, each 38x300.

Pittsburgh, Pa.—Mrs. Karl Koenig, Thompson Run Road, four 200-foot houses.

CHILE NITRATE.

The Secretary of Agriculture has sent the following telegram in response to an inquiry regarding the availability of nitrate for fertilizing purposes.

Richard H. Edmonds,
Editor, Manufacturing Record,
Baltimore, Maryland.

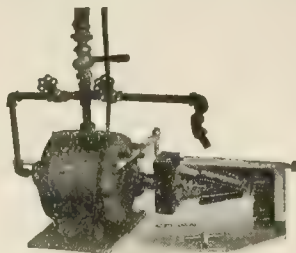
Am not opposed to the importation of nitrate or the use of nitrate if it could be secured at a price which would justify investment. Impossible to secure nitrate now from Chile for application this season. Government could spare only four thousand tons. This has cost, except in one instance, sixty dollars a ton at seaboard. Quantity too small to be of consequence. Do not know of private supplies that could be secured and, if so, rates quoted seventy-six dollars per ton seaboard. Transportation to farmers would increase this. Rates from private concerns include forty-seven dollars per ton in Chile, same as Government price, and transportation in private ships at abnormal rates for tonnage, insurance and wages because of conditions. Government cannot now use transports and at present could get private ships only at high rates. Have expressed doubt as to wisdom of average farmer investing in nitrate at prices at which it could be obtained, namely, seventy-five to eighty dollars per ton. Experts doubt whether in such circumstances nitrate could be used profitably except by very skillful farmers.

London, Ont.—A fierce hailstorm was experienced here on May 19 and heavy damage was inflicted on greenhouses and their contents, as well as garden plants and fruit.

JACOBS BUILT TO LAST GREENHOUSES

The strong, simple construction of Jacobs Greenhouses enables us to keep costs down to a minimum, without affecting durability or utility. In commercial greenhouse building, especially, where costs must be carefully considered, we honestly believe we can give you a "bigger dollar's worth" than the average. Backed by half a century's experience. Write for estimates—today!

S. JACOBS & SONS
1359-1385 Flushing Ave. Brooklyn, N. Y.

CLEAN POTS
MAKE POSSIBLE
PERFECT PLANT

The "Presto" Pot Washer

Electric, Water and Belt Power

Write Today State Kind of Power

KEETCH & COMPANY

5th Floor, 1240 Huron Rd.

CLEVELAND, O.

Successors to Fowler, Mfg. & Supply Co.



DREER'S

Florist Specialties,
"RIVERTON" Moulded
Garden and Greenhouse
Hose

Furnished in lengths up to 500 ft. without seam or joint.

The HOSE for the FLORIST

¾-inch, per ft., 16 c.
Reel of 500 ft. " 15 c.
Reels, 1000 ft., " 14½ c.
½-inch, " 14 c.
Reels, 500 ft., " 13 c.
Couplings furnished

HENRY A. DREER
714-716 Chestnut St.,
PHILADELPHIA, PA.

Dreer's Peerless
Glazing Points

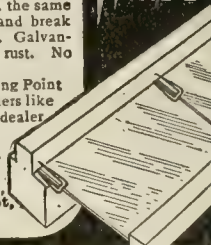
For Greenhouses

Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts. The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

1000, 75c. postpaid.
Samples free.

HENRY A. DREER,
714 Chestnut Street,
Philadelphia.

FULL
SIZE
No. 2



PATENTS

Trademarks
and Copyrights

Difficult and rejected cases speedily solicited. No misleading inducements made to secure business. Over 30 years' active practice. Experienced, personal, conscientious service. Write for terms.

Address,

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

When writing to advertisers kindly mention HORTICULTURE.

STANDARD FLOWER
POTS

If your greenhouses are within 500 miles of the Capitol, write us; we can save you money.

W. H. ERNEST
29th & M Sts., Washington, D. C.



If you need a boiler in a hurry telephone or telegraph at our expense

KROESCHELL BOILERS

SEND FOR CATALOG

Kroeschell Bros. Co., 466 W. Erie St., Chicago



King Greenhouses

KEEP SUMMER WITH YOU THE WHOLE YEAR ROUND

On account of their sturdy special construction which permits of great strength without the need of heavy shadow casting supports, these houses are so warm and sunny that they are filled with a riot of bloom and fruit when Jack Frost has stripped the garden of its beauty.

The ventilating and heating systems are the result of years of experience in building for professional growers. Things just have to grow in a King.

Ask us for any of the following: Catalogue showing Commercial Type Greenhouses, Catalogue showing Greenhouses for private estates, Catalogue showing Garden Frames and Sash for private estates.

KING CONSTRUCTION COMPANY, 28 King's Road, North Tonawanda, N. Y.

All the Sunlight. All Day Houses.

BRANCH OFFICES: New York, 1476 Broadway Boston, 113 State Street Scranton, 307 Irving Avenue
Philadelphia, Harrison Building, 15th and Market Streets



FOLEY MATERIALS

ARE THE BEST FOR

**Iron Frame, Pipe Frame or Wood Frame
GREENHOUSES**

Estimate and Sketch Submitted Promptly

THE FOLEY GREENHOUSE MFG. CO.

3275 West 31st Street, CHICAGO, ILL.

MASTICA

For Greenhouse
Glazing
USE IT NOW

F.O. PIERCE CO.

12W. BROADWAY
NEW YORK



Mastica is elastic and tenacious, admits of expansion and contraction. Putty becomes hard and brittle. Broken glass more easily removed without breaking of other glass as occurs with hard putty. Lasts longer than putty. Easy to apply.



Evans 20th Century Arm

Most up-to-date arm on the market. Proof that it is better than any other is that others tried to imitate it. Write for our 1916 catalog just out.

JOHN A. EVANS CO.
Richmond, Ind.

GLASS

AND
HOT-BED SASHES

Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

PARSHELSKY BROS. Inc.

215-217 Havemeyer St., Brooklyn, N. Y.

**WE ARE SPECIALISTS IN
GREENHOUSE GLASS
PAINTS and PUTTY**

IROQUOIS WHITE (Semi-Paste).
Most Perfect White Paint Made.

Be sure to get our estimates.

The DWELLE-KAISER Co.

241 Elm St., BUFFALO, N. Y.

The Florists Hall Association rate of insurance from Nov. 1st, 1916 to Nov. 1st, 1917 will be twenty cents per hundred square feet of single thick glass and eight cents per hundred square feet of double thick glass. For particulars address **JOHN G. ESLER, Sec., Saddle River, N. J.**



We have been in the greenhouse building business for almost half a century, and have encountered and overcome most every known difficulty attendant to greenhouse erection, heating and ventilation. Our organization is keyed right up to the acme of efficiency and renders a service which is far above the average, when speed, economy and practicability are sought.

PUT YOUR GREENHOUSE PROBLEMS UP TO US

We go anywhere in the U. S. to submit plans and prices.

Metropolitan Material Co.
PATENTED GREENHOUSES

1297-1325 Flushing Ave.,
Brooklyn, N. Y.

GULF CYPRESS

GREENHOUSE MATERIALS

**HOTBED SASH
GLASS**

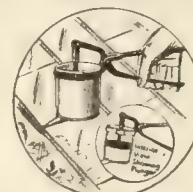


Pecky Cypress Bench Lumber

THE ONLY PERFECT

LIQUID PUTTY MACHINE

Will Last a Lifetime, \$1.25 each



**"SEAL TIGHT
LIQUID PUTTY"**
will not harden,
crack or peel off.
\$1.35 per gallon in
10 gallon lots.
\$1.40 per single
gallon.

Non-Kink Woven Hose

In any length (one piece)
with couplings, 14c. per foot.
Remnants 15 to 30 feet,
coupled, 10c. per linear foot.
Unequaled at the price.



Hose Valve—70c.

All brass except the hand wheel. Has a removable leather disk which is easily replaced to keep water-tight. Stuffing box prevents leaks at stem.



Metropolitan Material Co.
PATENTED GREENHOUSES

1297-1325 Flushing Ave., Brooklyn, N. Y.

GET OUR CATALOGUE

On Ventilating Apparatus and Greenhouse Fittings

ADVANCE CO., RICHMOND, IND



How You Can Do Your Bit

THERE is one very practical patriotic duty that must be shared by *every one of us*, regardless of age or position. It is to keep home conditions *normal*.

The man or woman who encourages or gives way to hysteria at this time is simply not doing his or her bit.

Hysteria does not help.

It hinders.

Hysteria does not build.

It destroys.

Hysteria is *not efficient*. And America *must be efficient*, if America is to win.

Let every one of us order his life and business in so far as possible as if no war existed.

Let us press resolutely forward; let us *buy and sell as usual*; let us buy our homes, furnish our homes and heat our homes as usual.

Let us be un wasteful, but on the other hand, let us avoid the "hysterical parsimony" that the Council of National Defense has *warned us against*.

Let us bear in mind that "hard times" can come *only at our own invitation*, and at *our own instigation*.

Let us not invite them or instigate them.

Let us *think* "good times" and *act* "good times."

Let us help keep America prosperous and progressive and strong.

It is the most that some of us can do for our Country.

It is the very least that any of us can do.



Hitchings and Company

NEW YORK
1170 Broadway

BOSTON
49 Federal Street

PHILADELPHIA
40 So. 15th Street

General Offices and Factory, Elizabeth, N. J.

Vol. XXV
No. 23
JUNE 9
1917

HORTICULTURE



View in Boston Outdoor June Show.

Rock Garden by R. & J. Farquhar & Co.

Published Every Saturday at 147 Summer Street, Boston, Mass.
Subscription \$1.00



The Beautiful Transformation of an Ugly Skyline Effect

The principal flaw in the top photograph is the unsightly effect produced by dead branches. Edged against the sky is a ragged, monotonous outline in which there is a minimum of grace, symmetry and beauty.

Now note the lower photograph—observe what a wonderful transformation has been effected by Davey Tree Surgeons!

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NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE

"If vain our toil, we ought to blame the culture, not the soil."—*Pope*.

Eucharis Amazonica

Potted eucharis plants that have finished their crop of flowers can be given a top dressing of cow manure and loam, removing some of the old soil on top and replacing it with new compost. Where they have made lots of roots and are becoming too big for their pots they will be better for a shift, but it should be always remembered that they flower best when well potbound. Place the pots in a cool frame, plunged to their brims in a mixture of straw manure and leaves which will provide a gentle bottom heat. Place shaded sashes over the plants; spray and shut them up sufficiently early in the afternoon to bottle up a brisk heat. By the end of September they can be placed in a house where the temperature is about 50 degrees at night and with a few weeks' rest they will be ready to force for Christmas.

Gardenias

After removing all the plants and old soil make sure to wash every corner of the benches well, then give a heavy coating of hot lime. It is essential to make use of a good porous soil. A little straw should then be spread to keep the soil from going through the drainage. A good compost can be made of three parts of very fibrous loam with one part of well rotted cow manure and some clean sand. The plants should be set about 15 or 16 inches apart. With this space between the plants a 32 to 36-inch bench should only have three rows of plants. After planting soak the whole bench, after which water only the ball of the plants as necessary. Never set out a dry plant. The ball should always be moist, and do not allow the plants to be out of the pots before planting. Firm the soil well all around the ball. Syringe freely on all good days both over and under the foliage.

Lilies

Give them an abundance of air at all times as they resent coddling. Examine the pots two or three times a day so they will not suffer from want of water, and also go over them as the flowers begin to open and remove the pollen before it discolors the petals. Keep the air moist by frequent damping. Some of the tallest lilies should be staked to keep the stems erect and the flowers in good shape. When they are fairly well out they can be moved to a cool cellar. Keep them all well syringed until the flowers begin to open. Do not neglect

fumigation. Once green fly gets a good foothold it will deform or ruin a great part of the flowers. *Lilium speciosum* and *longiflorum* for summer flowering should have a house without much shade until they begin to open up when they will be better for a little shade.

Resting Callas

Callas in pots can be placed on their sides, after they have ripened a little, in some place where they can bake in the sun. Those that are planted in benches should be done very gradually at first until the foliage begins to turn yellow, when they can be lifted and the soil well shaken out. Callas will not flower well if they do not have eight or nine weeks of a rest. Those that were grown in benches will have a few offsets which can be broken off and planted out in rich ground and can be lifted in September and potted. The tubets should be stored in dry sand in a cool dry place until wanted for planting.

Sweet Peas

Keep them well cultivated and hoed, with thorough watering once or twice a week which should be followed by a cultivation the next day. This will place them in a good condition to receive a mulching between the rows later on which helps to keep the soil cool and better able to retain moisture. Keep the seed pods picked off as fast as they may appear, which will help considerably in extending the flowering season. Should there come a spell of dry weather give them water at the roots whenever possible so they will not receive a check in their growth. Before watering them you can sow some nitrate of soda and wood ashes or other good fertilizer between the rows.

Reminders

Give all plants a new stand frequently now that growth is active.

Keep the young fuchsias regularly pinched that are wanted for flowering later.

Pot up the runners of Boston ferns regularly and keep them well on the move.

Repot young palm stock giving a light shift and a good soil and make up kentias and ericas in pots as needed.

Cissus discolor requires a high temperature and ample atmospheric moisture to bring out to the full its beautiful tints in the foliage.

Next Week: Care of Violets; Chrysanthemums; Cinerarias for Christmas; Bonvardias; Outdoor Roses.

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Protection The people of the State of New Hampshire do not intend that the fruits of their labors shall be lost this year by lawless and indiscriminate thieving and depredation and have passed a law providing severe penalties for any stealing or injury inflicted upon food crops growing in fields or gardens. In every place wherever man has planted and nurtured a crop of any kind, large or small, be it either fruit, vegetables, grass or flowers, there should be ample protection for his rights. In the last issue of the Arnold Arboretum Bulletin, Professor Sargent has found it necessary to protest vigorously against the breaking of the lilac

bushes in the Arboretum, which, without special police protection would be exterminated in a day. We have often wondered at the peculiar moral obliquity of people who would not think of otherwise tampering with what belonged to another but who seem to see no wrong in entering upon private grounds and stealing lilac flowers. From the children of the streets up to the lady in the limousine, all seem to regard the lilac as a sort of common property!

Lagging behind

Potato and bean patches have been monopolizing so much of the public interest and so thoroughly has the propaganda for vegetable growing been pushed as an offset to the h. c. l. this season that it would seem that the fruit tree as a food producer has apparently been almost lost sight of. Yet it is true beyond all question that much of the rough land which has been plowed up in this New England section for vegetable garden use is far better fitted for the permanent planting of apple trees, and the yield of vegetables from such will in many instances not pay for the cost of breaking up the ground. From our view point it looks as though the nurserymen had been negligent in not taking advantage of the receptive condition of the public this spring to exploit the claims of the apple, pear, plum, quince, peach, cherry, currant, blackberry, grape, gooseberry and other fruits, large and small, as rivals of the annual field crops, in these days of "back to the land" sentiment. There is a vast amount of idle land and there is much that the nurseryman might say to the people regarding its use, which would be not only wise and remunerative as a business move but patriotic and helpful as a factor in the solution of the food problem for the future.

The Boston June show

It is a wonderful exhibition of high-degree floricultural products that has been assembled in Boston's great outdoor show which is now in progress. We wish that every gardener and florist in the land could be privileged to see this exhibition for in many respects it outclasses anything of the kind that has ever been done in this country and it is very doubtful if its equal will be attained or even attempted for a good many years to come. In the standard which it sets and as a triumph of horticulture it is a signal success and this, rather than the financial outcome, has been the chief aim and purpose of its promoters. The large scale and spaciousness throughout make the show extremely impressive for any visitor sufficiently well informed to realize what it means to develop those enormous specimen plants and to transport and properly place them to produce an effect so spectacular. With the exception of the great Waterer group of rhododendrons and the superb orchid exhibits from Julius Roehrs Company and A. N. Cooley and the contribution from Mount Desert Nurseries, the entire show is locally contributed. The unanimity and spirit of loyal co-operation between the different classes of membership, which President Saltonstall so earnestly strives to encourage, is one of the best assets the Massachusetts Horticultural Society can boast of today. In bringing to such a creditable finish the present undertaking, gardeners and their employers and commercial florists have stood shoulder to shoulder and we hope that during the coming week the only other factor required for complete success—public attendance—may measure up proportionately to the occasion.

BOSTON'S OUTDOOR JUNE FLOWER SHOW



Partial View of Central Group in Orchid Tent. Picture shows principally the Julius Roehrs Co.'s Exhibit which received a Gold Medal. The handsome *Miltonia* in foreground was part of the exhibit by E. A. Clark.

This ambitious undertaking which has been on the tapis for a year or more, opened according to schedule on the Wentworth Institute grounds, Huntington avenue, Boston, on Friday, June 1st. As it has proved, a postponement of the date for at least one week would have been a wise move, for the rhododendrons, which constitute so strong a feature, are now, one week after the opening day, only beginning to expand their buds. The first day of the show was given over to the Red Cross interests and that worthy cause was enriched to the amount of \$7,500 therefrom. The public opening exercises took place on Saturday, June 2.

The central feature of the grounds which are about three acres in extent, is a rock garden and miniature lake with cascade and fountain, the work of the landscape department of R. & J. Farquhar & Co. This feature is very inadequately depicted in the illustration on our cover page. It entailed a vast amount of labor at the height of the busy season and among the myriads of plants used are many new and rare gems for the alpine garden. Since the picture was taken many water lilies have come to the surface and are now in bloom. The numerous fastigiate arbovitæ about

the grounds and in some of the tents are a part of the Farquhar display and there is also a plantation of new forms of abies and other conifers collected in China by Wilson, contributed by this firm. Julius Heurlein has also a splendid group of conifers planted with pleasing effect.

There are seven tents in the enclosure, six of them 50 x 100 ft. each and one 100 x 100 ft. The great collection of azaleas from Holm Lea, the estate of Prof. C. S. Sargent, occupies one tent as shown in the accompanying picture. In size and beauty of the specimen plants this collection is unrivalled anywhere and it makes a wonderfully beautiful effect.

One tent is devoted entirely to orchids, a partial view of which we are able to present. It is an unprecedented aggregation of gems from some of the most noted orchid establishments in this country, including E. B. Dane, A. N. Cooley, Julius Roehrs Co., J. T. Butterworth, F. J. Dolansky, Mrs. C. G. Weld, E. A. Clark and Miss Cornelia Warren.

Another triumph in Thomas Roland's lengthening list is his rose garden, which fills one tent and is planted with rare artistic skill. Here are seen all the various rose classes in bloom and the baby rambler type is splendidly featured in particular. We

shall have a picture of the rose garden in next week's issue.

Nearly one half of the entire tent space is occupied by the rhododendrons. As in the case of the roses and azaleas, these are all plunged in the grass sward and when in bloom they will make a gorgeous garden picture. The exhibitors are F. Gomer Waterer, Bagshot, England, whose plants have been housed and cared for by Messrs. Farquhar since last fall; Walter Hunnewell and Mrs. S. C. Lawrence. The specimen plants run from three up to ten feet high.

Among other notable displays are a great array of giant golden calceolarias from E. S. Webster and Mrs. C. G. Weld, an extensive collection in flower of hybrid azaleas by Charles Sander, gardener at Holm Lea, new astilbes and lupines from Mt. Desert Nurseries, a glorious bed of giant pansies by William Sim, wisterias grown in tree form from Holm Lea and a large group of *Statice Suworowii* from Faulkner Farm.

The Sander azaleas make a luminous stretch of color, blended with consummate skill and very interesting as introducing a new type based upon the crossing of the species *ovata* and *obtusa* upon the beautiful crimson *Hinodegeri*. They run from white and pale salmon up through all tints to red.

on one side and through a succession of orange and vermilion shades on the other.

The school children are admitted under escort of their teachers free every day except Saturday and Sunday.

The attendance for the first part of the week has been very light. This is accounted for in part by the delinquency in the weather and the fact that the rhododendrons have not yet opened. But the public mind is pre-occupied and registration day with other incidents of war preparation have naturally had a considerable adverse influence. The attendance will doubtless increase with each day, especially if Old Sol attends to his June duties as he should.

On Wednesday President Saltonstall gave a luncheon to the exhibitors and other workers at the Hotel Somerset where brief remarks were made by ex-presidents J. K. M. L. Farquhar, S. M. Weld and A. F. Estabrook, Chairman Dillon of the Park Department, Walter Gott of St. Albans, Eng., James Wheeler and Thomas Roland.

Just before the gates were opened to the Red Cross ticket subscribers the exhibition committee completed its study of the show and decided to make the following awards:

Gold medals: James Wheeler, in recognition of his service to the society in installing the exhibition; R. & J. Farquhar & Co., for the rock garden; Thomas Roland, rose garden; Charles Sander, azaleas and wisterias; John Waterer Sons & Crisp, Ltd., Bagshot, Surrey, Eng., rhododendrons; Mrs. Samuel C. Lawrence, rhododendrons; T. D. Hatfield, rhododendrons; Julius Heurlin, conifers; Arthur W. Cooley, orchids; Ernest B. Dane, or-

chids; Julius Roehrs Co., orchids. Silver medals: Mrs. Charles G. Weld, Edwin S. Webster, A. Dolansky and Faulkner Farm.

Honorable mention: E. A. Clark,

ciation with the late H. H. Hunnewell, the chief promoter of the former enterprise which while small as compared with this year's affair was equally sensational for those days and the records show that it was eminently successful from a financial as well as an artistic standpoint. It was devoted to rhododendrons exclusively.

Mrs. William W. Edgar and General Stephen M. Weld.

Certificate of merit: Philip L. Carbone, J. Whittier and Henry Penn, for garden ornaments.

AN OLD-TIME RHODODENDRON SHOW.



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A PEONY LETTER FROM M. LEMOINE.

The letter given below was received from Monsieur E. Lemoine of Nancy, France, by the Secretary, late last autumn. It will be remembered that the firm of V. Lemoine et fils were given Honorary Membership in our society at the meeting last June.

The letter reads as follows:

"I am very grateful to the American Peony Society for the honor conferred on me, and I beg you to transmit my best thanks to the Society. I was much interested in reading the Bulletin No. 3, and particularly in examining the 'Symposium on the Newer Foreign Varieties.'

"Please note the following remarks about the year of introduction of some varieties: Bayadere, 1910—Bertrade, 1909—Claude Gellee, 1904—Gisele, 1908—La Fee, 1906—Laurence, 1911—Mirabeau, 1904—Rachel, 1904—Sultane, 1899.

"Ornement des Massifs was sent out by Crousse in 1893. We always consider it a poor variety, but very different from Charlemagne (Crousse 1880) which is a good sort, and sweet scented.

"Solange was not named after the Chevalier Soulangue-Bodin, but this is a Christian name frequently used in some parts of central France.

"We spell Renommee instead of Renomme, Mademoiselle Desbuisson, instead of Desbuissons.

"I am sending you the colored plate of tree peony La Lorraine, as requested, together with a picture and a photograph of the new tree Peony Souvenir de Maxime Cornu, which was raised and named by Louis Henry of the Paris Museum of Natural History, and which I hope to send out when circumstances become normal.

"I have so far suffered only immaterial damage from air raids, a bomb having

dropped in my garden near the dwelling house last year."

All of our members will be glad to learn that the precious stocks of hybrids in the nursery of M. Lemoine were safe from damage at least up to the time of his letter, and we may hope they still are so.

In the matter of dates, our members will kindly take note of the information here supplied, and incorporate it in catalogue or garden book according as they are professional or amateur growers.

The two color plates referred to in the letter are indeed of great interest. The lutea hybrid La Lorraine has already found its way into this country, though I do not know of anyone having yet had bloom on it. It is a large double bright yellow peony—but those who get the Lemoine catalogues are already familiar with the description of this epoch-making flower. The new variety Souvenir de Maxime Cornu—another lutea hybrid—is, to judge by the color plate and the photograph of the plant in bloom, another great advance. The flower is fully double, of a magnificent bright yellow, with reddish shadings on the edges of some of the petals. The photograph of the plant shows a large vigorous bush with foliage much like that of P. lutea, and decorated with 17 or 18 huge, fully expanded blooms.

The Secretary did what he could to obtain copies of some of these pic-

tures for distribution with the bulletin, but they were unobtainable in any such quantity. They will be on view at the Philadelphia meeting, and any member who is particularly interested and who cannot be present there, may have a look at them later on if he will signify to the Secretary that his happiness depends on it.

Just as this bulletin is ready for the press, the May number of the Garden Magazine comes to hand, with an excellent, though too brief, appreciation of M. V. Lemoine, the father of the present head of the firm. Our readers will be interested in both the sketch and the photograph of this remarkable man, "the greatest plant breeder that the world has ever seen."—Bulletin No. 4, Amer. Peony Society.

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AMERICAN ROSE SOCIETY

ROSARIANS VISIT ARLINGTON.

A better day could not have been wished for than when the members of the American Rose Society and their friends made the annual pilgrimage to the Government rose test gardens, at Arlington, Va., on June 4. The day was in marked contrast with that of last year and the year before when the trip was made through mud that clung to the walkers.

Prof. L. C. Corbett delivered the address of welcome, following his introduction by President S. S. Pennock. He told of how the rose garden had come into being, through the co-operation of the American Rose Society with the Department of Agriculture, and the purposes for which it was started.

J. Horace McFarland made a plea for "business as usual." He referred to what he termed the hysteria of some of the people of the country who seemed to believe that no one should talk anything but about the war, and should expend his efforts along all war lines. Under this scheme of things there would be no place for the florist.

Assistant Secretary Vrooman, of the Department of Agriculture, took the opposite view.

Those who registered with the secretary included Dr. E. M. Mills, Syracuse, N. Y.; E. G. Hill and Gurney Mann, Richmond, Ind.; Benjamin Hammond, Beacon, N. Y.; Miss Katherine H. Neily, John Richardson, and Edward Kress, Baltimore, Md.; G. E. Anderson, Twin Oaks, D. C.; B. W. Ansporn, College Park, Md.; E. A. White, Ithaca, N. Y.; Roger Murphy, Urbana, O.; Frank E. Good, Springfield, O.; J. Horace McFarland, Harrisburg, Pa.; I. W. Staalmann, Oakton, Va.; Mr. and Mrs. Thomas N. Cook, Watertown, Mass.; Joseph Heacock and James W. Heacock, Wyncote, Pa.; A. Patten, William I. Hough, F. W. Kuehn and R. W. Frischkorn, Brookland, D. C.; E. J. Forward, East Falls Church, Va.; S. S. Pennock, F. J. Michell, Jr., and Robert Kift, Philadelphia, Pa.; Prof. F. L. Mulford, William F. Gude, C. Corbett, D. N. Shoemaker, Adolph Gude, Otto Bauer, George Field, Ernest Gude, Chas. E. F. Gersdorff, R. L. Jenkins, George W. Hess, C. M. Jenkins, M. Behrend, Geo. C. Shaffer, Prof. David L. Fairchild and Mr. Peters, Washington, D. C.

It was voted to have made a gold flag pin that would bear an appropriate inscription on the back, for presentation to Dr. Walter Van Fleet in appreciation of what he has done in rose production.

At Twin Oaks, D. C., the visitors were the guests of Mrs. Charles J. Bell.

ROSES COMMENDED.

The judges at the annual inspection June 4 of the National Rose Test Garden at Arlington Farm, Va., noted the following roses as worthy of special mention.

Teas and Hybrid Teas: Laurent Carle, Gruss an Teplitz, Lieutenant Chaure, Mary Countess of Ilchester, Mme. Paul Euler, Dorothy Page Roberts, Mme. Jules Gravereaux, Lady Ursula, La Tosca, Mrs. Wakefield, Christie-Miller, Lady Ashtown, Gustave Grunerwald, Countess of Gosford, Konigan Carola.

Dwarf Polyantha: Katherine Zeimet, Baby Tausendschoen, Ellen Poulsen, Mrs. Wm. H. Cutbush, Baby Dorothy, Triomphe Orleanaise.

Climbers: Countess M. H. Choteck, and Bess Lovett. F. L. MULFORD.

INVESTIGATIONS IN ROSE DISEASES.

Last year in response to a letter from President Pennock of the American Rose Society, thirty-two florists very generously contributed toward the investigations in rose diseases which were carried on by Dr. L. M. Massey of the Department of Plant Pathology at Cornell University. Dr. Massey has put in considerable work on this problem during the past year and has several lines of investigation well under way. It is the feeling of the officers of the American Rose Society that Dr. Massey should continue his work during the coming year, as was outlined in the project of a year ago. At that time it was stated that it was expected the investigation would be on a two-year agreement. Last year the American Rose Society pledged itself to support Dr. Massey while in the field one-fourth of the time, and that the cost would not exceed \$1,000, of which sum \$500 the first year and \$250 the second year would be for traveling and other special expenses. The rest of the expenses of the investigation have been borne by Cornell University.

Dr. Massey carries on the major part of the outside work during his vacation periods, when he is free from college duties, and can visit commercial ranges. Laboratory research is carried on during the college year.

In this issue there appears a preliminary report of Dr. Massey's work. It will be understood from the nature of the project that definite results cannot be given in so short a time. It seems, however, that Dr. Massey's work during the past year has opened up some wonderfully valuable lines of investigation, which should be continued.

It is hoped that a large number of men interested in rose growing who did not contribute to the work last year, may feel interested to do their part this year. All subscriptions should be sent to E. A. White, Secretary American Rose Society, Ithaca, New York.

PRELIMINARY REPORT OF THE PATHOLOGIST IN CHARGE OF INVESTIGATION OF DISEASES OF THE ROSE.

The investigations covered more or less briefly in this report were begun August 1, 1916. During the first four months much time was spent in visiting rose plantings in northwestern United States, making a survey of diseases. This seemed desirable in order to acquaint us with the various diseases, together with their range and the extent of injury caused by them in this country. With these facts in mind suitable plants and materials have been collected for experiments now under way which will prove of the greatest value to growers of roses.

The gardens and greenhouses of about fifty rose growers have been visited. The number and extent of the diseases present have been noted and specimens taken for further study. Probably an equal number of growers have also materially aided the work by sending in specimens. These specimens have been examined and the grower advised as to the cause and control of the disease so far as our present knowledge and experience allow. If the trouble proved to be new, of unusual interest or of a serious nature, special work has been started to determine the unknown facts regarding the disease.

Diseases Noted—Old.

The survey and correspondence with growers has shown the most important rose diseases in order of importance, to be (1) black spot, (2) mildew, (3) crown gall, (4) stem canker, (5) *Phyllosticta* leaf spot, (6) rust, (7) bud rot, (8) other leaf spots. Practically all of these diseases are always present and take from the growers yearly tolls of surprising magnitude. It is not uncommon to find gardens and houses with all the plants completely defoliated by ravages of the leaf spot diseases, especially black spot, thus making the plants unsightly and so reducing their vitality that they are susceptible to attacks of other fungi, from which roses are ordinarily immune, and to frost injury. It is unnecessary to mention the damage done by mildew, while there is an ever-increasing demand for information relating to crown gall, stem canker, rust and bud rot. Unfortunately very little is known regarding the control of most of these diseases; and many points remain to be investigated concerning the control of such common and well-known diseases as black spot and mildew.



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Diseases Noted—New.

A new, and what appears to be one of the most important diseases of the rose, has been observed by the writer in visits to rose houses. We are calling it the "crown canker." Specimens have been sent to the Department by growers from many parts of eastern United States and from as far west as Missouri. It was first observed by the writer in September, 1916, but talks with growers indicate that the disease has been present for possibly four or five years. All varieties seem to be susceptible to the disease. The plant is attacked just below the surface of the soil and although the disease advances slowly, the death of the plant is sure with an ever-decreasing number and quality of flowers.

This disease, which has never been described, is considered of such importance that a large part of the writer's time is being devoted to a study of the

life history of the causal fungus and the development of a method of control. Several large growers have stated that unless help is obtained they will be forced out of business. With the disease already known to be present in the houses of ten large growers, it is safe to assume that other growers have plants similarly affected and that the disease will be widely distributed and increase rapidly in importance. Steps must be taken immediately to control this disease. Not only is it important that growers who already have the disease shall be furnished with control methods, but is even of greater importance that the method of dissemination of the fungus be worked out in order that the further spread of the disease be checked.

What appear to be other new diseases than the one mentioned above have been brought to the writer's attention, but too little progress has yet been made in this investigation to give definite statements at this time.

Investigations Under Way.

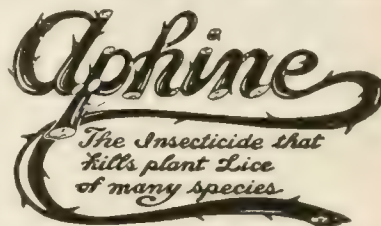
A. *Black spot*. It is planned to conduct extensive experiments for the control of this disease during the coming season. Plants at the Cornell Test Garden and at Chase Brothers' Nursery, Honeoye Falls, New York, will be treated with various fungicides along the lines of recent developments in plant disease control. One of the most important fungicides to be tried is that of finely ground sulphur applied in the form of dust. Suitable plants have been obtained and are now growing in the greenhouse at Cornell for similar experiments for the control of black spot under glass.

B. *Mildew*. Experiments for the control of mildew through the use of finely ground sulphur used as a dust on both indoor and outdoor roses.

C. *Phyllosticta leaf-spot*. A study of the life history of the causal organism is now being made. This is one of the most important leaf-spot diseases of Ramblers, and methods of control will be tried during the coming season.

D. *Crown gall*. Some 200 healthy plants have been obtained to be inoculated with bacteria causing this disease. These plants will be grown to determine the effect of the disease upon the plant, there being a divergence of opinion as to just how much damage is done.

E. *The new root or crown disease, crown canker*. Extensive experiments for the control of this disease are now under way. It is probable that the fungus lives in the soil and that successful treatments will be along the line of soil sterilization and the practice of sanitation in the houses. How-



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ever, the effects of chemicals—lime, acid-phosphate, sulphur, etc.—upon the fungus, when applied to the soil, will be tried. Some 300 rose plants have been obtained and are now growing in the greenhouses at Cornell for these experiments. Much time is being spent in working out the life history of the causal organism, as such information is essential for a comprehensive study of control methods.

F. Fungi and bacteria causing other diseases of roses are being studied in culture. These organisms have been isolated from diseased material obtained from growers. Their pathogenicity will be tested and control experiments conducted where the organisms prove parasitic and the importance of the disease warrants such action.

Conclusion.

It will be seen from the above statements that while there is but little yet to report in the line of results in control, still considerable progress has been made and the foundation laid for experiments for the control of diseases which are of extreme importance to the growers of roses. There is every reason to expect that another year's work will bring results upon which proved and definite advice may be furnished the growers for the solution of their rose-disease problems. It is hardly necessary to add that is very essential that the work be continued, for should it be dropped at this point, the work already done will amount to but little.

SWEET PEA IRREGULARITIES.

Editor of HORTICULTURE,

Dear Sir:—In HORTICULTURE of May 26th there was an article in regard to Sterling Stent, Barbara and Robt. Sydenham sweet peas, stating in reference to Barbara that probably there would be stock enough of it another year to warrant listing it. The three sweet peas in the order I have mentioned them came out in the following years: 1911, 1912, 1915, and stock of Barbara has been listed or could be listed by any seed house in America since 1912. Robt. Sydenham, which came out in 1915 is quite generally listed by seed houses in America and why should Barbara, which came out three years earlier, not be listed? It is listed by a few but not by as many as list Robt. Sydenham. Barbara, I consider the best of the three, being of much better Spencer form, larger bloom, and longer stem than the other two.

The great trouble with a number of our seed houses on this side is that they are not up-to-date on sweet peas and are prone to substitute varieties which they regard as synonymous, that are not alike at all. I have two varieties of sweet peas coming into bloom now, bought from a seed house

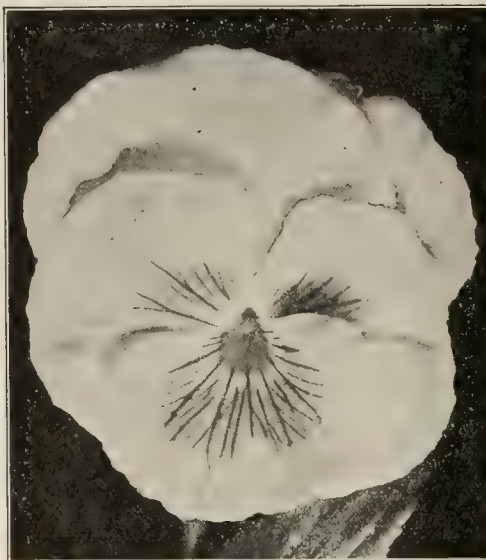
Your ad. on Hydrangeas was very effective and has helped me to dispose of two houses of Hydrangeas for Memorial Day. We have had a great many letters telling us how fine the stock is.

Thanking you, I am

Yours very truly,

A. L. MILLER.

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Faneuil Hall Square

"Seeds with a Lineage" All Varieties
Thoroughly tested at our trial grounds, Raynes Park, London, England. Send for Catalogue

CARTERS TESTED SEEDS, Inc., 166 Chamber of Commerce Bldg., Boston, Mass.

that lists 84 varieties of Spencers, and neither one is what I ordered.

I will make an exhibit of these sweet peas alongside of the true varieties at the Boston Show, and I hope that a representative of the firm in question may be present. No doubt they will hide behind the warranty clause, but with responsible seed growers taking every precaution to keep stock true such an excuse will hardly hold good.

WILLIAM GRAY.

Newport, R. I.

New York, N. Y.—A new seed store has been opened at 15 Park Row by William M. Hunt and Harry Goldberg, under the name of William M. Hunt & Co. Both gentlemen are well known in the New York seed trade, Mr. Hunt having been employed by Arthur T. Boddington for the last nine years, and Mr. Goldberg in charge of the seed and bulb departments of the Knight & Struck Company.

CUT

Worm Food gets them
Pounds 25c, 5lbs \$1.00

WM. ELLIOTT & SONS
42 Vesey St., New York

Arthur T. Boddington Co., Inc.
SEEDSMEN

128 Chambers St., New York City

BULB STOCK

Dwarf Double Pearl Tuberoses

Special prices on application.

J. M. THORBURN & CO.

53 Barclay Street
NEW YORK CITY

KELWAY & SON

SPECIALIZE IN

SEEDS

(personally selected strains)

WHOLESALE ONLY

Write for Special Prices, Spot or
Forward

Only Address, **LANGPORT, Eng.**

LET US QUOTE YOU PRICES

"A B C BRAND"

Lilium Giganteum Rubrum
Album Auratum

AMERICAN BULB CO.

172 No. Wabash Ave., - - Chicago

J. BOLGIANO & SON

**Careful Seed Growers For
99 Years**

Send for Our 1917 Wholesale Prices
To Florists and Market Gardeners

BALTIMORE, MD.

ORDER NOW

ASPARAGUS PLUMOSUS NANUS SEED,
greenhouse grown, \$3.50 per 1000, \$15.00 per
5000, \$27.50 per 10,000; Lath-house grown
Seed, \$2.00 per 1000, \$9.00 per 5000, \$17.50
per 10,000. Asparagus Sprenger Seed, 75c.
per 1000, \$3.00 per 5000.

S. S. SKIDELSKY & CO.

1004 Lincoln Bldg. Philadelphia, Pa.

**MY WINTER-ORCHID-FLOWERING
SWEET PEA**

Price list has been mailed. It contains
many splendid Novelties. If you have not
received a copy send postal for.

ANT. C. ZVOLANEK

Sweet Pea Ranch Lompoc, Cal.

ROBERT DYSART

CERTIFIED PUBLIC ACCOUNTANT

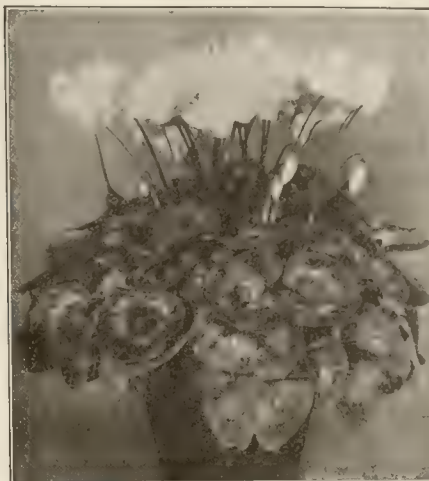
Simple methods of correct accounting
especially adapted for florists' use.

BOOKS BALANCED AND ADJUSTED.

40 STATE ST. - - - BOSTON

Telephone Main 58.

FARQUHAR'S GOLD MEDAL



CYCLAMEN

Awarded the Gold
Medal of the Massa-
chusetts Horticultural
Society.

Strong plants in 3
inch pots, for delivery
now.

\$10.00 per 100

\$90.00 per 1000

R. & J. FARQUHAR & CO., Boston,
Mass.

LEONARD'S SEEDS

and **SEED SERVICE.**

FOR SALE BY

LEONARD SEED COMPANY, Chicago, Ill.

LILIUM GIGANTEUM

NEW CROP NOW READY.

	Per 100	Per 1000
7 to 9 in. (300 bulbs to case)...	\$5.50	\$50.00
8 to 9 in. (250 bulbs to case)...	7.00	65.00
8 to 10 in. (225 bulbs to case)...	9.00	80.00
9 to 10 in. (200 bulbs to case)...	10.00	95.00

A. HENDERSON & CO.

211 N. State St., Chicago.

Burpee's Seeds
PHILADELPHIA

**BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
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THOMAS J. GREY COMPANY

**SEEDS, BULBS AND IMPLEMENTS
WHOLESALE AND RETAIL.**

Reselected Strains in Seeds.
Improved styles in Implements.
Catalogue upon application.

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BURNETT BROTHERS

Importers and Growers of

SEEDS, BULBS, PLANTS, &c.

98 Chambers Street, New York

ROMAN J. IRWIN

108 West 28th St., NEW YORK

SPECIAL OFFER

LILIUM FORMOSUM

8/11, 225 to a case.....	\$80.00 per 1000
9/10, 200 to a case.....	\$5.00 per 1000
11/13, 100 to a case.....	15.00 per case
LILIUM FORMOSUM—Black Stem	
8/10, 200 to a case.....	\$80.00 per 1000
9/10, 180 to a case.....	90.00 per 1000
11/13, 100 to a case.....	16.00 per case

Write for Complete Stock Circular.
SATISFACTION GUARANTEED.

ORDER NOW

New crop flower and vegetable seeds.
Begonia and Gladiolus Bulbs. 1917
Catalogue on application.

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47-54 North Market St., Boston, Mass.

W. E. MARSHALL & CO.
SEEDS, PLANTS AND BULBS
Horticultural Sundries

166 W. 23rd St., NEW YORK

GARDEN SEED

BEEF, CARROT, PARSNIP, RADISH and
GARDEN PEA SEED in variety; also other
items of the short crop of this past season,
as well as a full line of Garden Seeds, will
be quoted you upon application to

S. D. WOODRUFF & SONS

82 Dev St., NEW YORK and ORANGE, CONN.

ALEX. McCONNELL

611 FIFTH AVENUE
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Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

*Cost of Cabling Foreign Deliveries
Must be prepaid*

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.

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The Florist

"The Telegraph Florist"

Member of Florists' Telegraph Delivery

124 TREMONT ST.

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KANSAS CITY

Transfer Your Orders to

SAMUEL MURRAY

1017 Grand Avenue

Members Florists' Telegraph Delivery

Established 1874

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N. E. Cor. 44 St. & Madison Avenue, N. Y. City
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Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address Dardsflor.

DAVID CLARKE'S SONS

Deliver orders from any part of the country to

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Write or Telegraph

2139-2141 Broadway, - New York
Telephone 1553-1553 Columbus

Write or Phone

F. H. WEBER'S

Modern Flower Shop for
Artistic and Special Work

N. E. Corner of Taylor and Olive

ST. LOUIS, MO.

M. F. T. D.

ZINN The
Florist

For Quality and Promptness
4 PARK ST. - BOSTON

Of Interest to Retail Florists

NEW FLOWER STORES.

McPherson, Kan.—C. M. Kiplinger.

Morgantown, W. Va.—The Flower Shop.

Meriden, Ct.—H. G. Johnson, East Main St.

Quincy, Mass.—George A. Thomson, Glencoe place.

Phoenix, Ariz.—Arizona Seed & Floral Co., 24 South Center Ave.

Rockford, Ill.—J. K. Dawson, succeeding the late George H. Chamberlain.

Portland, Ore.—R. E. Twombly, 768 Glisan St., succeeding Oscar Johnson Floral Co.

DESTRUCTION BY TORNADO AND HAIL.

Reports of the severe storms which swept over central Illinois and portions of Indiana and Tennessee, May 26 and 27, show that many florists have suffered financial loss, but so far none in the trade have lost their lives or been seriously injured. It is only a few weeks since the tornado which wrecked the Benthey greenhouses at New Castle, Ind., and just missed the Peter Wieland range. This time there was a very heavy fall of hail and the Wieland loss of glass was considerable, while the damage to stock in the houses and field looks now to be very great, especially to the young carnation plants in the field. Peony plants were just coming into bloom and acres of them were stripped by the hail. Mr. Wieland's range has 100,000 sq. ft. of glass, and breakage is estimated at four or five hundred boxes. This can easily be replaced but the loss to the stock will be much more and insurance will cover but a small part of the damage. There are many growers of flowers and vegetables in northern Indiana and nearly all lost glass, that of the Davis Gardens at Terre Haute being most severe, where it is estimated two car loads of glass will be replaced. The cucumbers, a specialty here, were badly cut. A new range of houses was under construction by Lord & Burnham Co.

The storms were not confined to Illinois and Indiana, but swept on into Tennessee where the McIntyre Bros. at Nashville had more than one-half the glass in their new ranges broken. Louis Henry is also a heavy loser, while the Joy Floral Co., having the largest range in Nashville, escaped almost without loss. The last week of May brought disaster to a large section of the middle west and only a small portion of the damage has as yet been located. When complete, it will be a record of stupendous loss to florists and vegetable growers whose investments meant years of labor and were of a nature that could not withstand the combination of wind, hail and rain.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.



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1214 F ST NW
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WASHINGTON, D. C.

Member Florists Telegraph Delivery

Orders for NEW YORK.
Write or Phone to

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22 West 59th St.

Adjoining Plaza Hotel

Best Florists in the States as
References.

EUROPEAN ORDERS EXECUTED

Members of the Florists'
Telegraph Delivery.

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23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

Members Florists' Telegraph Delivery

G. E. M. STUMPP

761 Fifth Ave.

NEW YORK CITY

Member Florists' Telegraph Delivery Asso.

YOUNG & NUGENT

42 West 28 Street

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NEW YORK

413 Madison Avenue at 48th Street.
Also Newport, R. I.

We Guarantee Satisfaction

MEMBER F. T. D. A.

CHICAGO Send Your Orders to WILLIAM J. SMYTH

Member Florists' Telegraph
Delivery Association

Michigan Ave. at 31st Street

Prompt Auto Delivery
Service

THOS. F. GALVIN
INC.
NEW YORK 561 Fifth Ave.
Vanderbilt Hotel
BOSTON 1 Park Street
799 Boylston Street
Deliveries to Steamers and all Eastern Ports

CLEVELAND
A. GRAHAM & SON
5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

Orders Filled Day or Night for
CLEVELAND
and State of Ohio
Complete Stock. Regular discount to Trade.
KNOBLE BROS.
1896 W. 25th St., Cleveland, O.
Members Florists' Telegraph Delivery Ass'n.

THE SMITH & FETTERS CO.
735 Euclid Avenue
CLEVELAND, OHIO
Flowers of Every Kind in Season

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1532.
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OMAHA, NEB.

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J. B. KELLER SONS,
FLORISTS
25 Clinton Avenue, N.
Rochester Phone 506. Long Dist. Bell Phone 278.
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S. A. ANDERSON
440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
Stock and prompt deliveries in BUFFALO,
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK
Members of Florists' Telegraph Delivery.

HIGH GRADE PLANTS
For Retail Stores a Specialty
ASK FOR LIST
THOMAS ROLAND. Nahant, Mass.
WORCESTER, MASS.
Randall's Flower Shop
HARRY L. RANDALL, Proprietor.
Mention Florists' Telegraph Association

Flowers by Telegraph

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

Albany, N. Y.—H. G. Eyres, 106 State St.
Albany, N. Y.—The Rosery, 23 Steuben St.
Boston—Thos. F. Galvin, 1 Park St.
Boston—Penn the Florist, 124 Tremont St.
Boston—Zinn The Florist, 4 Park St.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.

Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.

Cleveland, O.—J. M. Gasser Co., Euclid Ave.

Cleveland, O.—Adam Graham & Sons, 5523 Euclid Ave.

Cleveland, O.—Knoble Bros., 1836 W. 25th St.

Cleveland, O.—The Smith & Fetters Co., 735 Euclid Ave.

Denver, Col.—Park Floral Co., 1643 Broadway.

Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Ave.

Houston, Tex.—Kerr, The Florist.

Kansas City, Mo.—Samuel Murray, 1017 Grand Ave.

Los Angeles, Calif.—Howard & Smith, 853 So. Olive St.

New London, Conn.—Reuter's.

New York—J. H. Small & Sons, 505 Madison Ave., at 52d St.

New York—David Clarke's Sons, 2139-2141 Broadway.

New York—Alex. McConnell, 611 5th Ave.

New York—Young & Nugent, 42 W. 28th.

New York—A. T. Bunyard, 413 Madison Ave., at 48th St.

New York—Dards, N. E. corner 44th St. and Madison Ave.

New York—Max Schling, 22 W. 59th St.

New York—G. E. M. Stumpp, 761 Fifth Ave.

New York—Thos. F. Galvin, Fifth Ave., at 46th St.

Norwich, Conn.—Reuter's.

Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.

Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.

St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.

St. Louis, Mo.—F. H. Weber's, N. E. corner of Taylor and Olive Sts.

St. Paul, Minn.—Holm & Olson, Inc.

Tarrytown-on-Hudson, N. Y.—F. R. Pier-son Co.

Toronto, Can.—J. H. Dunlop, 8-10 West Adelaide St.

Washington, D. C.—Gude Bros., 1214 F St.

Washington, D. C.—George H. Cooke, Connecticut Ave. and L St.

Westerly, R. I.—Reuter's.

Worcester, Mass.—Randall's Flower Shop, 22 Pearl St.

Howard & Smith
853 SO. OLIVE ST.

Los Angeles, Calif.
Every Order sure to receive prompt and careful attention.

REUTER'S Members Florists' Telegraph Delivery

STORES IN

New London and Norwich, Conn. and Westerly, R. I.

We cover the territory between

New Haven and Providence

ST. LOUIS, MO.

FRED C. WEBER
4326-28 Olive St.

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NOTICE INITIALS. We have one store only

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

The Far-Famed Flowers of
TORONTO

Delivered on mail or telegram order for any occasion, in any part of the Dominion.

JOHN H. DUNLOP
8-10 West Adelaide St. - TORONTO, ONT.

ALBANY, N. Y.

EYRES

Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER

106 STATE STREET, ALBANY, N. Y.

"THE HOME OF FLOWERS"

The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

The Park Floral Co.

J. A. VALENTINE, Pres.

Members Florists' Telegraph Delivery.

DENVER, COLORADO



KERR ORDERS FOR TEXAS
HOUSTON, TEXAS

The Florist Member F. T. D. Association

NEWS ITEMS FROM EVERYWHERE

CHICAGO.

Archie Spencer, well known wholesaler in the Atlas block, has the sincere sympathy of the trade in the loss of his mother, whose death occurred last week at the family home, 550 N. Ridgeway, Ave.

E. F. Winterson lost his beautiful new house at Highland Park by fire, May 25th. The loss is covered by insurance but this does not pay for the disappointment and anxiety occasioned by such an event.

At Simpson's Flower Shop the spring trade has been very good and orders for commencements are now coming in rapidly. C. B. Le Mare, a partner in the business, is spending a few days in Rockford, Ill.

The J. C. Moninger Co. has the rebuilding of their warehouse that was destroyed by fire last winter well under way and this firm will be better prepared than ever for taking care of their orders for greenhouse materials.

The American Bulb Co. report excellent sales for the month of May. A. and M. Monblatt have joined the traveling sales force of this firm. Paul Dressel, who has been with this house for six months has enlisted in the navy and is awaiting his call.

Counter trade is still brisk at the seed stores, the killing frost on the 23rd of May not having discouraged home gardening but rather to have aroused greater efforts. The department stores also are doing a much larger business than usual.

The retail florists in the downtown district are not anticipating any less demand for flowers on account of the war. They say they have not had any falling off yet, but on the contrary, rather an increase, as flowers are all used as expressions of sympathy.

Kennicott Bros. have peonies and other stock at their new store and business is going on at both places. H. B. Kennicott reports a large advance over last year's May business. It is the first year that they have not had peonies in cold storage before June 1st.

At Wm. J. Smyth's store, Mich. Ave. and 31st St., wedding orders are coming in briskly and some very large ones are on the books for later in the month. Mr. Smyth says the wealthier class may not be buying so heavily this year but that the middle classes are more than making up for it.

The month of May averaged the lowest temperature for ten years and included one killing frost. The effect upon the quantity and selling price of the stock is something upon which there is more or less difference of opinion, but the effect upon the coal supply leaves no one in doubt. The outlook for the future is a serious one and the coal situation is one of the things causing the growers much concern.

PHILADELPHIA

George Cook is a new recruit in the outfit of the Leo Niessen Co.

Edward Dornheim has joined the forces of the Philadelphia Wholesale Florists' Exchange.

The American Peony Society will hold its annual exhibition at Horticultural Hall, Broad and Locust street, Philadelphia, June 11 and 12.

Count Brother Engler of the Florists' Exchange among the bright particular star bowlers in the 1917 tournament inaugurated by the Florists' Club. We noticed 253 on the board June 1st, and that is nothing unusual for him.

Mr. and Mrs. Abram L. Pennock will celebrate their 50th wedding anniversary on the 5th inst at their home in Lansdowne. Only members of the family take part. They are a goodly number, and at least forty of them are expected to attend. The original Pennock came over with William Penn, and his descendants have had a mighty influence in the growth and development of Pennsylvania from that time to this.

PITTSBURGH.

Miss Grace Dryden has resigned as designer and saleswoman for the Briggs Floral Shop.

Rudolph Lilke, an attache of the E. C. Ludwig Floral Company, is critically ill with pneumonia.

Colored designs have been submitted by the high and public school pupils in competition of a prize of fifty dollars offered by the A. W. Smith Co. for the best street car advertisement. The exhibition will be on display at the Keenan Building next Monday, Tuesday and Wednesday.

Donald McCallum and his sister, Miss Elspeth, promise to follow in the steps of their father, Neil McCallum, foreman of West End Park. The young son has commenced as an apprentice in the landscape department of the A. W. Smith Co., while the daughter is a student in the University of Pittsburgh preparing to teach Nature Study.

ROCHESTER, N. Y.

Over 200 varieties of lilacs are now to be seen at Highland Park.

Mrs. Owen, of Rochester Floral Co., motored to Buffalo and Niagara Falls on Memorial Day.

Word has reached us that Dewey Lester, formerly with Rochester Floral Co., will soon be removed to El Paso, Texas.

Over 15,000 potted geraniums were sold by the various growers for the decoration of the Soldiers' graves in the different cemeteries May 30.

The Peony Show, which is to be held at Convention Hall, has been postponed on account of the lateness of the season until June 28, 29 and 30th.

WASHINGTON, D. C.

The recent marriage of Adolph Gude, Jr., son of a member of the firm of Gude Brothers Company, and Miss Inez Gilbert, at St. Mark's Episcopal Church in Southeast Washington, has just been announced. Young Mr. Gude is connected with the 1214 F street store of the firm. The young couple have taken up their residence in the Wardman Courts. —

William F. Gude, on behalf of the orchid growers, and C. B. Knickman, of McHutchison Company, last week presented to W. A. Orton, of the Federal Horticultural Board, the matter of the fumigation of orchids, under which recently a number of plants have been killed. As a result of their visit this scheme has been discontinued for the time being or, at least, until the board will have found some other method of combating the insect which they say is doing a great deal of damage to orchids.

Dr. J. B. Parker, president of the Brookland Rose Society, has been awarded the Shahan gold medal, sweepstakes prize for the largest number of merit points, at the sixth annual rose exhibition held by the society. He had a total of fifty-eight points. This Society is affiliated with the American Rose Society, and the exhibition was a departure from previous shows, in that the rules of the American Society were followed, separating the exhibits into classes, where heretofore the exhibitors have made collective exhibits.

ST. LOUIS.

Joseph Wors, son of C. W. Wors, has enlisted in the navy. He preferred to do this rather than wait for the draft.

Park Commissioner Cunliff has been reappointed commissioner. He is a great worker, looks well after the people's interests.

Henry Ostertag was married on the afternoon of June 1 at the Presbyterian Church of the Covenant to Minnie Spohr. They will spend their honeymoon in Chicago and up at the lakes.

NEW YORK.

Charles H. Totty has been confined to his home for several days with an attack of rheumatism.

We are deeply sorry to learn of the bereavement that has come to W. E. Maynard in the death of his daughter, a beautiful girl of 19, which occurred in the Nassau County Hospital on Saturday, June 2, as the result of an operation on the throat.

A CORRECTION.

In our notes from Rochester last week mention was made of the "evergreen raspberry" from Oregon at Highland Park. This should have been evergreen "barberry" (*Berberis repens*).

Clubs and Societies

MEETINGS NEXT WEEK.

Monday, June 11.

Cleveland Florists' Club, Hollenden Hotel, Cleveland, Ohio.
Gardners' and Florists' Club of Baltimore, Florists' Exchange Hall, Baltimore, Md.

New York Florists' Club, Grand Opera House, New York City.
Rochester Florists' Association, 95 Main St., East Rochester, N. Y.

Tuesday, June 12.

Newport Horticultural Society, Newport, R. I.

Wednesday, June 13.

Cincinnati Florists' Society, Jabez Elliott Flower Market, Cincinnati, O.
Dutchess County Horticultural Society, Falkkill Bldg., Poughkeepsie, N. Y.

Lenox Horticultural Society, Lenox, Mass.

Morris County Florists' and Gardeners' Society, Madison, N. J.
Nassau County Horticultural Society, Pembroke Hall, Glen Cove, N. Y.

Thursday, June 14.

Menlo Park Horticultural Society, Menlo Park, Calif.

New London Horticultural Society, Municipal Bldg., New London, Conn.

Friday, June 15.

North Shore Horticultural Society, Manchester, Mass.

CLUBS AND SOCIETY NOTES.

The regular monthly meeting of the Philadelphia Florist Club was held on the 5th inst. The special feature was an advertising film of the Milwaukee & St. Paul R. R.

Next Monday, June 11, will be "Iris Night" at the New York Florists' Club. There will also be an illustrated lecture by J. Otto Thilow of Philadelphia on "Life and Flora of Hawaii."

The Connecticut Horticultural Society has decided to give up all flower shows for the year on account of the war conditions, but will probably have a vegetable exhibition in the fall.

The first of the June exhibitions of flowers, fruits and vegetables of Worcester County (Mass.) Horticultural Society will be June 14 in Horticultural Hall. Exhibitions will then continue every Thursday until October. The season will close with the chrysanthemum show in November.

NEWS NOTES.

Waco, Texas.—Thos. J. Wolfe has suffered a nervous breakdown and has gone into a sanitarium.

Saco, Me.—Alonzo Hill of North Saco, a well known florist and gardener, was given a surprise party Tuesday evening, May 29, by 23 relatives and friends, the occasion being his 73d birthday anniversary. Mr. Hill, who is a veteran of the Civil War, was the recipient of many gifts, among them being a large flag which was presented with appropriate exercises consisting of patriotic songs and readings, to which Mr. Hill responded most feelingly. The remainder of the evening was spent socially.

THE EDUCATIONAL IN LANDSCAPE PLANTING.

From "Art in Landscape Gardening," by A. H. and N. M. Lake, Marshfield, Wis.

Considering the very important part performed by plants, directly and indirectly in the life, welfare, comfort and enjoyment of mankind it would seem that scientific knowledge of plants should be one of the foremost studies in our schools and colleges and that popular education in this branch should begin at an early age and vigorously followed throughout our whole course of study. On the contrary there is no scientific study so briefly taught and so lightly passed over by students as the science of plants. The loss in wealth and pleasure through insufficient knowledge of plants is, today, one of our greatest economic leaks. Our text books in botany and our failure to start the pupil in its study at an earlier age are at fault. A considerable portion of field and descriptive botany should be given young pupils in the form of interesting, illustrated, descriptive and instructive reading lessons and at the early age that children love and delight to roam the fields and woodlands in search of wild flowers and fruits. At this early and impressionable age the young pupils' minds would be filled and fixed with many facts of the science of plants and they would be much more interested in and receptive of the more fundamental principles set forth in the text books of botany when the time arrived to take up this important study.

Investigation will disclose the fact that only our most eminent botanists have acquired what may be termed an intimate knowledge of a large variety of plants; that the technical descriptions of plants in our text books were all written fifty to one hundred and fifty years ago—brief, meager and often erroneous; that the average teacher of botany in our schools and colleges is a book botanist and rarely has an intimate knowledge of plants themselves; that students in our schools and colleges have a very restricted opportunity to gain an intimate knowledge of plants on account of the limited range of varieties in their environment; that an arboretum for each school would be a costly establishment; that in the area of our home and public grounds we have the opportunity of easily and cheaply creating such arboreta; that the nursery industry in this country is just

To Leisureland

where woods are cool, streams alluring, vacations ideal. Between New York City (with Albany and Troy the gateways) and

Lake George
The Adirondacks
Lake Champlain
The North and West

The Logical Route is "The Luxurious Way"

Largest and most magnificent river steamships in the world

DAILY SERVICE

Send for free copy of Beautiful "Searchlight Magazine"

HUDSON NAVIGATION
COMPANY

Pier 32, North River

New York

"The Searchlight Route"

in its infancy and that our nurseries are insufficiently stocked with the known species of plants that are desirable and decorative; that our nurseries are inefficiently equipped with proper storage facilities for holding dormant plants; that there are no millionaire nurserymen and that prices for nursery stocks, retail and wholesale, are too low to afford a fair and adequate profit; that it is well nigh impossible to develop landscape gardeners and landscape architects into landscape artists until the public acquire a more intimate knowledge of plants; that the cardinal principle of landscape art, both on the part of the artist and the critic, is intimate knowledge of plants.

However much knowledge and skill an artist may possess or exhibit in his works, his reputation depends upon the capability of the public to understand and appreciate his art. The development of an art can proceed no faster than the education of the public. It was a long, long road from the Pipe of Pan to the magnificent pipe organ of today. Unless we quicken the interest and education of the public in the intimate knowledge of plants our present aimless and interestless landscape decoration will continue and the cleaning up and beautifying of our cities will remain a slow and stubborn problem.

H. BAYERSDORFER & CO.
Manufacturers and Importers

1129 Arch St. PHILADELPHIA, PA.

A Full Line of Bridal Accessories for the June Wedding Decorations

STOCK UP NOW

THE LEADING FLORISTS' SUPPLY HOUSE OF AMERICA

DOUBLE BLUE CORN FLOWERS

The Best we have had this Season.
Special price in thousand lots.

THE LEO NIESSEN CO.

Wholesale Florists

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PHILADELPHIA, PA.

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CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
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Daily consignments from leading growers Full line of Florists' Supplies Write for quotations before ordering elsewhere

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Telephone, Main 6267-6268

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON June 7		ST. LOUIS June 4		PHILA. May 28	
Roses						
Am. Beauty, Special..	12.00	to 15.00	30.00	to 40.00	20.00	to 25.00
" " Fancy and Extra..	8.00	to 10.00	20.00	to 25.00	12.00	to 15.00
" " No. 1 and culls..	3.00	to 6.00	5.00	to 10.00	3.00	to 10.00
Russell, Euler, Mock..	1.00	to 8.00	6.00	to 15.00	3.00	to 10.00
Hadley..	2.00	to 10.00	8.00	to 15.00	3.00	to 10.00
Arenberg, Hoosier Beauty..	.50	to 4.00	.....	.....	3.00	to 10.00
Ward..	.50	to 4.00	2.00	to 4.00	3.00	to 6.00
Killarney, Radiance, Taft..	.50	to 4.00	2.00	to 4.00	3.00	to 10.00
Ophelia, Sunburst, Hillingdon..	.50	to 6.00	4.00	to 10.00	3.00	to 10.00
Key..	1.00	to 6.00	.....	.....	3.00	to 10.00
Carnations	.50	to 1.50	1.50	to 3.00	2.00	to 6.00
Cattleyas	30.00	to 50.00	.....	to 50.00	35.00	to 60.00
Dendrobium formosum	.....	to 50.00	.....	.....	.....	.....
Lilies, Longiflorum	2.00	to 4.00	10.00	to 12.00	6.00	to 10.00
Lilies, Speciosum	.....	.....	.....	.....	.....	.....
Lily of the Valley	.50	to 4.00	6.00	to 8.00	8.00	to 10.00
Snopdragon	1.00	to 3.00	4.00	to 6.00	1.00	to 6.00
Peonies	.....	.....	.....	.....	2.00	to 10.00
Gladioli	.....	.....	.....	.....	2.00	to 3.00
Calendulas	.50	to 1.00	.....	to 1.00	2.4	to 1.00
Sweet Peas	.25	to .50	.25	to .50	.....	.....
Marguerites	.50	to 1.00	.....	to .50	.....	1.50
Gardenias	2.00	to 20.00	.....	to 2.00	.....	.....
Adiantum	.50	to 1.00	.....	to 1.00	.75	to 1.50
Smilax	15.00	to 25.00	.....	to 12.50	55.00	to 30.00
Asparagus Plumosus, & Spreng. (100 Bchs.)	25.00	to 35.00	.....	to 35.00	422.0	to 50.00

WILLIAM F. KASTING Co.

Wholesale Florists

568-570 WASHINGTON STREET - BUFFALO, N. Y.

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER of

CUT FLOWERS

Flower Market Reports

This market seems to **BOSTON** have come to a dead stop and doubled up on itself until it is piled high with its debris. Carnations and roses have met a stunner of a rebuff and everybody is as badly puzzled to account for it as they are to foresee where it is going to end. It is not a pleasant prospect to contemplate and there is but little that we can say concerning it that will be of either interest or value just now. Nothing to do but "grin and bear it?"

Following the big days **CHICAGO** of the week that included Memorial Day, when business houses knew no hours of rest, trade today seems very quiet by comparison. The month of May established a new record for many, if not all of the large houses, and no one is so widely optimistic as to expect such a condition to continue all summer. Saturday was a good day, showing that because people bought flowers for Wednesday it did not necessarily follow that none would be used for Sunday. The reaction, however, came on Monday, when trade was very dull and the market was well filled with all kinds of stock. Peonies suffered with the rest and were sold at any price that would move them. Carnations, that four days before had met eager buyers at five and six cents, now lay on the counters unwanted at any price. There was little shipping trade and local buyers were few for the demand had practically ceased. Weather conditions are not favorable to social affairs and a glut seems inevitable unless something changes conditions within two days. The June commencements and weddings are expected to take care of stock in another week so the depressed condition of the market which exists just now may entirely disappear by the time this is in print.

Business is at a stand-
NEW YORK still. All the customary stock is coming in heavily, and on top of this is the Pennsylvania peony crop, but there is almost no sale for anything and as to standard price "there aint no such thing." The outlook is not very encouraging for a resumption of "business as usual" until there is a let-up in the avalanche of material that is sent in to the market daily regardless of whether it can be disposed of.

Memorial week
PHILADELPHIA opened quite promising and the shipping trade did a lively business on Monday, but the uncongenial weather Tuesday checked buying and in purely city trade the situation was disappointing, all reporting very poor business,



FOR THE JUNE GIRL

A Peony decoration for her, showy, beautiful and attractive, all colors; delicate pinks, whites, reds and the darker shades of pink, wonderfully choice quality.

\$30, \$40, \$50 per 1000

\$4, \$5, \$6 per 100

Special prices in quantity.

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THE Wholesale Florists of **PHILADELPHIA**

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117 W. 28th St. 1608-1620 Ludlow St.

BALTIMORE
Franklin & St. Paul Sts.

WASHINGTON
1216 H St., N.W.

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	CINCINNATI May 28	CHICAGO June 4	BUFFALO June 4	PITTSBURGH June 4
Roses				
Am. Beauty, Special.....	40.00 to 50.00	30.00 to 40.00	20.00 to 25.00	25.00 to 30.00
" " Fancy and Extra.....	25.00 to 35.00	15.00 to 25.00	15.00 to 20.00	15.00 to 20.00
" " No 1 and culls.....	0.00 to 20.00	0.00 to 12.00	3.00 to 8.00	to 8.00
Russell, Euler, Mock.....	4.00 to 12.00	5.00 to 25.00	3.00 to 12.00	6.00 to 15.00
Hadley.....	4.00 to 12.00	.....	5.00 to 8.00	.....
Arenberg, Hoosier Beauty.....	4.00 to 10.00	4.00 to 12.00	4.00 to 10.00	.....
Ward.....	3.00 to 6.00	2.00 to 10.00	3.00 to 5.00	6.00 to 10.00
Killarney, Radiance, Taft.....	3.00 to 8.00	2.00 to 10.00	2.00 to 6.00	3.00 to 10.00
Ophelia, Sunburst, Hillingdon.....	3.00 to 10.00	3.00 to 10.00	3.00 to 8.00	6.00 to 15.00
Key.....	.....	.....	.....	.....
Carnations	2.00 to 3.00	2.00 to 4.00	2.00 to 3.00	2.00 to 4.00
Cattleyas.....	.....	.....	.....	.....
Dendrobium formosum.....	.....	.....	.....	.....
Lilies, Longiflorum.....	10.00 to 12.50	8.00 to 12.00	6.00 to 10.00	.....
Lilies, Speciosum.....	.....	.....	.....	.....
Lily of the Valley.....	.....	.....	.....	.....
Snapdragon.....	6.00 to 8.00	4.00 to 6.00	6.00 to 7.00	4.00 to 6.00
Peonies.....	.....	.....	.....	.....
Gladioli.....	.....	.....	.....	.....
Calendulas.....	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
Sweet Peas.....	.35 to .75	.50 to 1.50	.50 to 1.25	.50 to 1.00
Marguerites.....	.....	.....	.....	.....
Gardenias.....	1.00 to 2.00	15.00 to 20.00	.....	.....
Adiantum.....	.....	.....	.....	.....
Smilax.....	.....	.....	.....	.....
Asparagus Plu. & Spren. (100 Bhs.)	25.00 to 35.00	25.00 to 50.00	25.00 to 35.00	30.00 to 50.00

nothing like what had been expected. To make up for this, things improved Friday and Saturday and the clean-up was excellent, although at very moderate prices. Weather is more congenial now. Plenty of peonies.

Flowers are becoming more plentiful again and business so far continues to keep apace with prices corresponding. Lilacs and giganteum lilies especially are coming in better. Peonies coming from over eastern Pennsylvania promise to glut the market and bring prices away down in a day or two. Good green stuff is a little short, Asparagus plumosus and sprengeri especially.

The market has been **ROCHESTER** fairly active during the past week. Memorial Day trade was very good but owing to the bad weather considerable business was spoiled. May 30th was an ideal day and a fair amount of business was done even at the late hour. The month of June has opened up well and the calls for wedding work has been considerable. Quantities of out door lily of the valley are on the market and sell well. Roses, including American Beauties, are in good supply and sell well. Receipts of yellow daisies meet about all demands at present. Lilies are plentiful. Very good Darwin tulips are in and clear easy. Sweet peas, pink and white

(Continued on page 744)



IN CHICAGO

For the Retailer or for the Grower
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Wholesale Cut Flowers

H. B. KENNICOTT, President.

J. E. POLLWORTH, Sec'y and Gen'l Mgr.

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Choice Cut Flowers
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Telephone No. 755
Farragut New York

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Telephone 5335, Farragut.

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PHONE { 608 } FARRAGUT NEW YORK
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JOHN YOUNG & CO.

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53 WEST 28th STREET NEW YORK CITY

Consignments Solicited

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Ferns, Mosses, Wild Smilax, Galax,
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Laurel, Hemlock, all Decorative Evergreens.
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5893

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A Full Line of ALL CUT FLOWERS.
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WHOLESALE COMMISSION FLORIST SELLING AGENT FOR
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WHOLESALE ONLY

SAVE TIME AND MONEY BY SENDING YOUR ORDERS TO US

Prices Right. Consignments Solicited. Telephone Connection

Centrally Located, The Hub of the Flower Market Section

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ORCHIDS - - GARDENIAS

HEADQUARTERS for the entire output of the

BEECHWOOD HEIGHTS NURSERIES, of Bound Brook, N. J.

PAUL MECONI — Wholesale Florist — NEW YORK

Telephone Nos. 3864 and 8364 Madison Square

57 WEST 26th STREET

A GOLD MEDAL is not expected by us for doing our duty by our consignors and customers
We have 22 years' experience behind us

FANCY GRADE ORCHIDS, SEPTEMBER MORN, AMERICAN BEAUTY, PRIMA
DONNA AND ALL OTHER ROSES, LILIES, CARNATIONS, VIOLETS,
ASPARAGUS AND SMILAX and all other Seasonable Flowers.

GUTTMAN & RAYNOR, Inc., Wholesale Florists

Phones: Farragut 558, 2036 and 2037

111 West 28th Street, NEW YORK

NEW YORK QUOTATIONS PER 100. To Dealers Only**ROSES AND CARNATIONS**

	Last Half of Week ending June 2 1917	First Half of Week beginning June 4 1917
American Beauty, Special	15.00 to 20.00	15.00 to 20.00
" " Fancy and Extra	10.00 to 15.00	12.00 to 15.00
" " No. 1 and culls.	4.00 to 8.00	3.00 to 6.00
Russell, Euler, Mock	1.00 to 10.00	1.00 to 6.00
Hadley	3.00 to 20.00	2.00 to 25.00
Arenberg, Hoosier Beauty .....	.50 to 6.00	.50 to 6.00
Ward .....	.50 to 6.00	.50 to 4.00
Killarney, Radiance, Taft .....	.50 to 6.00	.50 to 4.00
Ophelia, Sunburst, Hillingdon .....	.50 to 6.00	.50 to 4.00
Key .....	.50 to 6.00	.50 to 6.00
Carnations .....	.50 to 2.50	.50 to 2.00

WALTER F. SHERIDAN

Wholesale Commission Dealer in

CHOICE CUT FLOWERS

133 West 28th Street, New York

Telephone—5632-3533 Madison Square

JOSEPH S. FENRICH

WHOLESALE FLORIST

Methods Fair and Liberal. Relations
Satisfactory and Profitable.

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Telephones, 1623-24-25 Mad. Sq.

Frank H. Traendly Charles Schenck

TRAENDLY & SCHENCK

Wholesale Florists

436 6th Avenue, Between 26th and 27th Sts., New York

Telephones: 797, 798, 799 Farragut

Consignments Solicited

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115 WEST 25TH STREET
New York

Tel., Farragut 5413-5891

EVERYTHING IN CUT FLOWERS
CONSIGNMENTS SOLICITED

HENRY M. ROBINSON CO. OF NEW YORK

WHOLESALE FLORISTS

55-57 West 26th Street

Telephones, 13—8510 Madison Square

MAURICE L. GLASS, Treasurer

Consignments Solicited

Flower Market Reports

(Continued from page 743)

stocks, and Spanish iris are plentiful and sell well. Orchids do not move overfast. Baby gladioli and snapdragons are being used extensively for basket work. Greens of all kinds are plentiful. Bedding plant stock has moved faster during the last half of week on account of more settled weather.

Raining throughout the ST. LOUIS entire day. Decoration Day was not as rosy as it might have been. Tuesday, the 29th, a great many flowers were sold and shipped away to be delivered on the 30th, but the bad weather on Monday curtailed to a great extent sales especially to the cemeteries. Stock was high. Considerable plants were sold, also ready-made wreaths of all varieties.

The flower market WASHINGTON for the past week has been crowded with stock of all kinds and American Beauty roses were to be had at low figures. The fact that practically no peonies were offered had no effect on the market because of the glut of other flowers. There has been a good sale of Spanish iris. Lily of the valley brought \$8 whenever the buyer was lucky enough to obtain the stock. The local outdoor crop is entirely off the market and the northern has not yet made its appearance. Carnations are beginning to show some of the effects of the heat. Gladioli are selling fairly well. The many commencement exercises and weddings has helped clean up the market, particularly of roses such as Mrs. Ward, Ophelia, and Cecil Brunner. Sweet peas are still to be had and seem quite good, with stems as long as fourteen inches. Cattleyas are very plentiful at \$6 per dozen.

VISITORS' REGISTER.

Pittsburgh—J. J. Goudy, representing H. A. Dreer, Philadelphia.

Boston—Theodore Outerbridge, Sunnyslands, Bermuda; Walter Gott, St. Albans, England.

New York—J. D. Thompson, Kennett Square, Pa.; Edgar and Fred H. Hall, repr. Hyde Park Floral Co., Austin, Texas.

Chicago—B. C. Blake, Springfield, Ohio; Chas. Sherwood, Waterloo, Iowa; W. J. Miller, Pontiac, Ill.; M. Uhl Schmidt of Grimm & Gorley, St. Louis, Mo.; D. Nicas of Chicago Flower Market, Decatur, Ill.

A CITY MAN'S DREAM.

In the garden I would stroll
Knocking squashes with a pole
Snapping parsnips from the tree,
Digging up the salsify.

Picking sweet corn from the vine
Is a pleasant dream of mine.
Round the garden I would walk
Nipping turnips from the stalk.

Never gardened in my life,
But I often tell my wife
That a garden is a boon
And I hope to have one soon.

—W. S. Adkins in *Pittsburg Post*.

PATRICK WELCH, WHOLESALE FLORIST

262 DEVONSHIRE STREET, BOSTON, MASS.

American Beauties, Orchids, Valley, Carnations. All the novelties in the Cut Flower Market furnished on short notice. Prices quoted on application. No retail orders accepted. Flowers shipped out of Boston on early trains.

STORE OPEN FOR BUSINESS AT 6 A. M. TELEPHONE MAIN 2698.

HERMAN WEISS WHOLESALE FLORIST

Can handle shipments of growers' product satisfactorily. Would like to hear from Growers of Snapdragons and Sweet Peas, etc., for the New York trade.

130 West 28th St., NEW YORK
Tel. Farragut 3066

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending June 2 1917		First Half of Week beginning June 4 1917	
	20.00 to	50.00	20.00 to	50.00
Cattleyas	.....	.....	.....	.....
Dendrobium formosum	.....	.....	.....	.....
Lilies, Longiflorum	2.00 to	6.00	2.00 to	5.00
Lilies, Speciosum	2.00 to	6.00	2.00 to	6.00
Lily of the Valley	.50 to	3.00	.50 to	3.00
Snapdragon	1.00 to	5.00	1.00 to	3.00
Daffodils	.50 to	1.50	.50 to	1.50
Spanish Iris	1.00 to	3.00	1.00 to	3.00
Peonies	.....	.....	.....	.....
Gladioli	.....	.....	.....	.....
Calendulas	.50 to	1.00	.50 to	1.00
Sweet Peas	.15 to	.75	.15 to	.75
Marguerites	1.00 to	2.00	1.00 to	2.00
Gardenias	1.00 to	20.00	1.00 to	20.00
Adiantum	.50 to	1.00	.50 to	1.00
Smilax	15.00 to	20.00	15.00 to	20.00
Asparagus Plumosus, & Spreng (100 bunches)	15.00 to	25.00	15.00 to	25.00

J. K. ALLEN, WHOLESALE COMMISSION FLORIST

Always Ready to Receive Consignments and Can Market Them Satisfactorily. Wanted Specially, Early Peonies, Gladioli, etc., for Spring Trade.

A Clean Record For Thirty Years

118 West 28th Street, - - - NEW YORK
Telephones: 167 and 3058 Farragut

COMMISSION DEALER FRANK MILLANG HOME GROWN ASPARAGUS CUTFLOWERS IN ANY QUANTITY

55-57 W. 26th St., NEW YORK

NATURAL PREPARED GREEN LYCOPodium FIRE-PROOF AND GUARANTEED NOT TO BECOME BRITTLE. PUT UP IN CONVENIENT SIZE CARTON, 11 LBS. NET, \$2.20. THIS IS A GOOD SUBSTITUTE FOR SEA MOSS.
PITTSBURGH CUT FLOWER CO.
116-118 Seventh St., PITTSBURGH, PA.

"BUSINESS AS USUAL."

Editor, HORTICULTURE,

Dear Sir:—Your editorial under the heading of "Cold Feet," in your issue of May 19, also the one in your issue of June 2, under the heading of "Business as usual," are up to the minute in my estimation. It's very surprising that Mr. Jenkins took offense on "Cold Feet." I would suggest that Mr. Jenkins read the advertisement of Hitching & Co. in your issue of June 2. Hysteria is not efficiency. Further comment is unnecessary.

Yours very truly,

CARL BECHTOLD

UNITED CUT FLOWER CO., INC.

Flowers Sold on Commission
Consignments of
Good Stock Solicited

111 W. 28th St., - NEW YORK

Established 1888

Tel. 551 Farragut

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Wholesale Commission Florists

110 West 28th St., New York

We Solicit Consignments of New England Grown Novelties.

Beechwood Heights Nurseries

Importers and Growers of

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Cut Flowers of All the Leading Varieties in their Season.

THOMAS YOUNG, Jr., Proprietor
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122 West 25th St., New York

Florists' Supplies

We manufacture all our Metal Designs, Baskets, Wire Work & Novelties and are dealers in Decorative Glassware, Growers and Florists' Requisites

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display Advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

ACCOUNTANT

R. Dysart, 40 State St., Boston.
For page see List of Advertisers.

APHINE

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

APHIS PUNK

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

ASPARAGUS SEED

S. S. Skidelsky & Co., Philadelphia, Pa.
Plumosus Nanus.
For page see List of Advertisers.

ASPARAGUS

Asparagus Plumosus Seedlings, \$1.00 per 100, \$5.00 per 1000. Ready May 1st. COL-
LINGDALE GREENHOUSES, Collingdale, Pa.

ASTERS

Henderson's Invincible, a fine Aster for cutting and trade pullers for your customers' own planting; separate colors, strong, transplanted plants, prompt shipment; \$5.00 per 1000. Cash. BRILL
CELERY GARDENS, Kalamazoo, Mich.

AURICULA PLANTS

William Slim, Cliftondale, Mass.
For page see List of Advertisers.

AZALEAS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

BASKETS

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

BEGONIAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
For page see List of Advertisers.

Chattellaine Begonias, 2 1/4-inch pots, in full bloom now, \$3.00 per 100, \$25.00 per 1000. HENRY F. MICHELL CO., 518 Market St., Philadelphia, Pa.

BEDDING PLANTS

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

E. C. Rogers, Roslindale, Mass.
For page see List of Advertisers.

Geraniums, Nutt, Ricard, Vlaud, Buchner, 4-in., \$8.00 per 100. Nutt and Rose Scented, 3 1/4-in., \$6.00 per 100. Germany Ivy, Canna Robusta, 3 1/4-in., \$6.00 per 100. Dracaena Indivisa, 3 in., \$7.00 per 100. Geranium Salleroi, Coleus Trailing Queen, Begonia Vernon, Blue Ageratum, White Daisy, 3-in., \$5.00 per 100. White Daisy, 4-in., \$15.00 per 100. Cash. F. SOKOL, College Street, Worcester, Mass.

BEGONIAS

BEGONIA LORRAINE.
2 1/4-in. pots, \$14.00 per 100; \$120.00 per 1000.
BEGONIA MRS. J. A. PETERSON.
2 1/4-in. pots, \$20.00 per 100; \$180.00 per 1000.
JULIUS ROEHR'S COMPANY,
Rutherford, N. J.

BOILERS

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Co., North Tonawanda, N. Y.
"King Ideal" Boiler.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

Lord & Burnham Co., New York City.
For page see List of Advertisers.

Hitchings & Co., New York City.

BOXES—CUT FLOWER FOLDING

Edwards Folding Box Co., Philadelphia.
For page see List of Advertisers.

BULBS AND TUBERS

J. M. Thorburn & Co., New York City.
Lillium Harrisii.
For page see List of Advertisers.

Ralph M. Ward & Co., New York City.
French, Japan, Holland and Cold Storage Bulbs.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
For page see List of Advertisers.

A. Henderson & Co., Chicago, Ill.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

Henry F. Michell Co., Philadelphia, Pa.
For page see List of Advertisers.

Joseph Breck & Sons Corp., Boston, Mass.
For page see List of Advertisers.

F. Rynveld & Sons, New York City.
Japanese Lily Bulb.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
For page see List of Advertisers.

Arthur T. Boddington Co., Inc., New York City.
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Bulbs of all descriptions. Write for prices.
NEW YORK BRANCH, 8-10 Bridge St.

CANNAS

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

CARNATIONS

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For page see List of Advertisers.

Wood Bros., Fishkill, N. Y.
For page see List of Advertisers.

Peirce Farm Greenhouses, Topsfield, Mass.

CARNATION STAPLES

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 1000 for 35c.; 3000 for \$1.00 post-paid. I. L. PILLSBURY, Galesburg, Ill.

CHRYSANTHEMUMS

Charles H. Totty, Madison, N. J.
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R. Vincent, Jr. & Sons Co., White Marsh, Md.
Pompon Chrysanthemums.
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Elmer D. Smith, Adrian, Mich.
New Chrysanthemum Catalogue.
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Wood Bros., Fishkill, N. Y.
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Peirce Farm Greenhouses, Topsfield, Mass.

CYCLAMENS

CYCLAMEN—Best strain, separate colors, or mixed, 2 1/4 in. pots, \$7.50 per 100; \$60.00 per 1000. J. H. FIESSER, North Bergen, N. J.

CYCLAMENS.

Best strain separate colors or mixed. 3-in. pots, \$10.00 per 100; \$90.00 per 1000. JULIUS ROEHR'S COMPANY, Rutherford, N. J.

DAHLIAS

Peony Dahlia Mrs. Frederick Grinnell.
Stock For Sale.
JOHN P. ROONEY, New Bedford, Mass.

ORDERS BOOKED ANY TIME
For Fall or Spring delivery. Wholesale and Retail. Send for Catalogue. NORTHBORO DAHLIA & GLADIOLUS GARDENS, J. L. Moore, Prop., Northboro, Mass.

NEW PAEONY DAHLIA

John Wanamaker, Newest, Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to PEACOCK DAHLIA FARMS, Berlin, N. J.

DECORATIVE PLANTS

Julius Roehrs Co., Rutherford, N. J.
Choice Flowering and Foliage Plants.
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Thomas Roland, Nahant, Mass.
High Grade Plants for Retail Florists.
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McHutchison & Co., New York City.

FERNS

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Small Ferns for Dishes.
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FEENS—Continued

30,000 Teddy and Scotti Ferns, extra fine stock, 2½-inch pots, \$4.50 per 100, \$40.00 per 1000; 4-inch strong, \$15.00 per 100. HENRY F. MICHELL CO., 518 Market St., Philadelphia, Pa.

FERTILIZERS

Pulverized Manure Co., Chicago, Ill.
Wizard Brand Cattle Manure.
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FLORISTS' SUPPLIES

Reed & Keller, New York City.
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J. M. Thorburn & Co., New York City.
Dwarf Gladiolus.
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GLASS

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The Dwelle-Kaiser Co., Buffalo, N. Y.

Greenhouse glass, lowest prices. JOHN-STON GLASS CO., Hartford City, Ind.

GLAZING POINTS

H. A. Dreer, Philadelphia, Pa.
Peerless Glazing Point.
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Metropolitan Material Co., Brooklyn, N. Y.
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GOLD FISH

Gold fish, aquarium plants, snails, castles, globes, aquarium, fish goods, nets, etc., wholesale. FRANKLIN BARRETT, Breeder, 4815 D St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

GREENHOUSE BUILDING MATERIAL

King Construction Co., N. Tonawanda, N. Y.
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Parshelsky Bros., Inc., Brooklyn, N. Y.
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Gulf Cypress.
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Lord & Burnham Co., New York City.
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A. T. Stearns Lumber Co., Neponset, Boston.
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Non-Kink Woven Hose.
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H. A. Dreer, Philadelphia, Pa.

HOSE VALVE

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Imp. Soap Spray.
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Lemon Oil Co., Baltimore, Md.
Lemon Oil Insecticide.
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IRIS

John Lewis Childs, Inc., Flowerfield, N. Y.
Liliums, Lycoris.
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Iris, German, 10 named varieties, \$2.00 per 100. Japanese, white, purple, mixed, \$5.00 per 100. AMON HEIGHTS NURSERIES, Camden, N. J.

IVIES

A. M. Davenport, Watertown, Mass.
English Ivies.
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LAWN MOWERS

Coldwell Lawn Mower Co., Newburgh, N. Y.
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LILY BULBS.

Arthur T. Boddington Co., Inc., New York City.

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.
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McHutchison & Co., New York.
Lily Bulbs from Japan.
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Ralph M. Ward & Co., New York City.
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J. M. Thorburn & Co., New York City.
Lilium Harrisii Bulbs.
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F. Rynveld & Sons, New York City.
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A. Henderson & Co., Chicago, Ill.
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American Bulb Co., Chicago, Ill.
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NIKOTEEEN

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NIKOTIANA

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P. Ouwerkerk, Weehawken Heights, N. J.
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In writing to Advertisers kindly mention Horticulture

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- W. & T. Smith Co., Geneva, N. Y.
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- The D. Hill Nursery Co., Dundee, Ill.
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Hardy, Northern Grown Stock.
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- August Rolker & Sons, New York City.
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- Cottage Gardens Nurseries, Inc.,
Eureka, Calif.
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NUT GROWING

- The Nut-Grower, Waycross, Ga.
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ORCHID PLANTS

- Sanders, St. Albans, England, also
Walter Gott, McAlpine Hotel, N. Y. City.
Orchid Hybrids.
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- Beechwood Heights Nurseries,
Bound Brook, N. J.
Importers and Growers of Orchids.
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- Julius Roehrs Co., Rutherford, N. J.
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- Lager & Hurrell, Summit, N. J.
- HASSALL & CO., Orchid Growers and
Raisers, Southgate, London, England. Im-
mense stock of Cattleyas.

PAINTS AND PUTTY

- The Dwelle-Kaiser Co., Buffalo, N. Y.
- Metropolitan Material Co., Brooklyn, N. Y.
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PANSY SEED

- MicHELL'S Seed House, Philadelphia, Pa.
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PETUNIAS

- R. Vincent, Jr. & Sons Co., White Marsh,
Md.
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PEONIES

- Peonies. The world's greatest collection.
1200 sorts. Send for list. C. BETSCHER,
Canal Dover, O.
- Complete manuals on the Peony, Iris and
Phlox. 25 cents each in stamps. C. S.
HARRISON, York, Nebraska.

PHLOX

- Phlox, white or pink, \$3.00 per 100.
AMON HEIGHTS NURSERIES, Camden,
N. J.

PECKY CYPRESS BENCHES

- Metropolitan Material Co., Brooklyn, N. Y.
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- A. T. Stearns Lumber Co., Boston, Mass.
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PIPE AND FITTINGS.

- Kroeschell Bros. Co., Chicago.
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N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
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- H. A. Dreer, Philadelphia, Pa.
"Riverton Special."
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POT WASHER

- Keitch & Co., Cleveland, Ohio.
The "Presto" Pot Washer.
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PRIMULAS

- William Sim, Cliftondale, Mass.
Hybrid Yellow Polyanthus.
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RHODODENDREONS

- P. Ouwerkerk, Hoboken, N. J.
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RIBBONS AND CHIFFONS

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- W. & T. Smith Co., Geneva, N. Y.
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- A. N. Pierson, Inc., Cromwell, Conn.
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- Bay State Nurseries, North Abington, Mass.
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- H. T. May, Hingham, Mass.

**ROSES, CANNAS AND SHRUBS.
THE CONARD & JONES COMPANY,
WEST GROVE, PA.****SASH**

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- R. Vincent, Jr. & Sons Co., White Marsh,
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SEEDS

- Carter's Tested Seeds.
Seeds with a Pedigree.
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- Joseph Breck & Sons, Boston, Mass.
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- Chas. Schwake & Co., New York City.
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- MicHELL'S Seed House, Philadelphia, Pa.
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- R. & J. Farquhar & Co., Boston, Mass.
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- J. M. Thorburn & Co., New York City.
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- Amt. C. Zvolanek, Lompoc, Cal.
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- Kelway & Son, Langport, England.
Seeds, Selected Strains.
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- S. S. Skidelsky & Co., Philadelphia, Pa.
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- W. E. Marshall & Co., New York City.
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- Burnett Bros., 98 Chambers St., New York.
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- Leonard Seed Co., Chicago, Ill.
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- Roman J. Irwin, New York City.
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- S. D. Woodruff & Sons, New York City and
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- Thomas J. Grey Co., Boston, Mass.
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- Fottler, Fisk, Rawson Co., Boston, Mass.
Seeds for the Florist
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SHELF BRACKETS

- Metropolitan Material Co., Brooklyn, N. Y.
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SPHAGNUM MOSS

- Live Sphagnum moss, orchid peat and
orchid baskets always on hand. LAGER
& HURRELL, Summit, N. J.

SWEET PEA SEED

- Ant. C. Zvolanek, Lompoc, Calif.
Gold Medal of Honor Winter Orchid Sweet
Peas.
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- Davey Tree Expert Co., Kent, Ohio.
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- H. Bayersdorfer & Co., Philadelphia, Pa.
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VEGETABLE PLANTS

- R. Vincent, Jr. & Sons Co.
White Marsh, Md.
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- Celery plants, Golden Self Blanching
(French strain), also the grand new Easy
Blanching variety, which is easy to grow;
fine plants, ready for the field, \$2.00 per
1000, or \$8.75 for 5000. Cash. BRILL
CELERY GARDENS, Kalamazoo, Mich.

VENTILATING APPARATUS

- The Advance Co., Richmond, Ind.
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- The John A. Evans Co., Richmond, Ind.
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VERMICIDES

- Aphine Mfg. Co., Madison, N. J.
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VINCAS

- Vinea variegata from 4 in. pots, price
\$10.00 to \$15.00 per hundred.
WM. CAPSTICK, Auburndale, Mass.

- Vinea variegata, 3½ and 4 inch pots, \$10,
\$12 and \$15 per 100. 5 inch pots, \$18, \$20
and \$25 per 100. Cash with order, please.
CHRISTOFFERSON BROS., North Be-
verly, Mass.

WHEAT SHEAVES

- H. Bayersdorfer & Co., Philadelphia, Pa.
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- Albany Cut Flower Exchange, Albany, N. Y.
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George B. Hart, 24 Stone St.
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The S. S. Pennock-Meehan Co., 1216 H St.,
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New Offers In This Issue**CUT WORM FOOD.**

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WINTER-ORCHID-BLOOMING SWEET PEAS.

Ant. C. Zvolanek, Lompoc, Calif.
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WANTS, FOR SALE, Etc.**HELP WANTED**

WANTED: Competent Greenhouse Man.
Capable of growing general stock. Give
references. DEAN & COPELAND, Spruce
St., Dedham, Mass.

THE NUT-GROWER

The unique monthly publica-
tion which furnishes reliable
and interesting up-to-date in-
formation regarding the value
of pecans and other edible nuts
and how to grow them for profit.

Subscription, \$1.00 per year

Sample Copy Free

THE NUT-GROWER

No. 2 Francis St.

WAYCROSS, GA.

Book of Garden Plans

By STEPHEN F. HAMBLIN

Associate of Warren H. Manning,
Landscape Architect

The purpose of this book is to aid
those who are planning gardens and
country places to visualize problems
similar to their own and to see how
a landscape architect would solve
them.

There are twenty plans of model
gardens and places in the book with
directions and planting lists for each.
The plans are wide in their variety
ranging from boulder walls, arbors,
poppy beds, and special borders to
the different kinds of formal and
informal gardens, rock, water, wood-
land, Japanese, annual, and wild
flower. Photographs illustrate the
basic idea of each plan.

The author says of the book in his
introduction:

"A rough plan, even if very in-
complete, will often be far more
helpful to explain arrangement and
grouping than will pages of printed
instructions. But so as to help make
these plans more definite, an actual
piece of property was in mind in
each case.

"Supposing, then, that the main
features on our imaginary piece of
ground have been decided upon, he
can refer to the blue prints and see
how, by the arrangement of our
garden material, we can best add to
the natural beauties of the ground
and give them the touch of human
hands."

A final chapter gives information
on the practical side of gardening—
the trees, plants, shrubs, vines, etc.,
for various conditions, cost estimat-
ing, time for planting, and other
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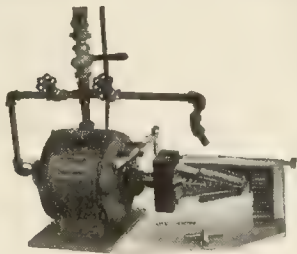


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Mass.—Summer Catalogue 1917. Pot-
Grown Strawberries; Pot-Grown Roses
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ter Decoration. Elegantly illustrated.

NEWS NOTES.

Halifax, Nova Scotia — H. Frank
Hubbard, florist, and Miss Adeline M.
Woodward were married on June 1.Manchester, Conn.—The Bon Ton
Flower Shop which has been conduct-
ed in the new Johnson block for sev-
eral years, was recently sold to Page
Potter, who has managed the business
for P. A. Reese for the past year. Mr.
Potter will shortly move the business
to the store in the old Johnson block
occupied by Thomas Dougan.

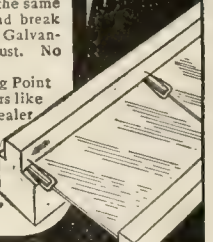
GREENHOUSES BUILDING OR CON- TEMPLATED.

Montclair, N. J.—Ellis P. Earle, En-
glewood Terrace, one house.Oh, these learned Boston children!
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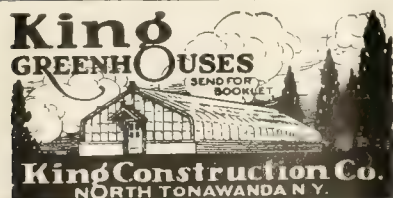


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Vol. XXV
No. 24
JUNE 16
1917

HORTICULTURE



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HATBORO, PA.

NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toil, we ought to blame the culture, not the soil."—*Pro.*

Care of Violets

Violets not yet planted in the houses should be planted as soon as possible. The plants are usually placed eight by ten inches. Double varieties, especially Farquhar and Marie Louise, seem to thrive better in soil which contains a relatively high percentage of clay. The Lady Hume Campbell and single violets thrive best in light soil. If the soil is inclined to be quite heavy a considerable amount of cinders is added to increase its porosity. As soon as the young plants are in the beds in June, a heavy shade is applied to the glass. This must not be too heavy, however, or the plants become light colored and spindling. It is considered best to apply slight shade at first, increasing the density as the hot days of July approach. The shade is gradually removed in the fall and by the middle of October the glass is clear.

Chrysanthemums

For all the shifts after a 2 or 2½-inch, soil should be made rich; say fibrous loam two parts, well decayed cow manure one part and a good sprinkling of bone meal and soot. Much of the success in growing chrysanthemums can be traced to the compost used. Attend to the watering two or three times a day and give them frequent syringings on bright days, which will encourage a good clean growth. Cuttings that were put in the last of May for single stemmed will now soon be showing signs of rooting. Keep a sharp lookout as to waterings, shading and spraying until they are fit for potting. To have good plants and flowers they should be grown on without a check and never permitted to get pot bound until they are ready for the last shift, which generally is a 6-inch pot. Both day and night give them plenty of ventilation. Keep them tied and staked.

Cinerarias for Christmas

Get fresh seeds of the best strains and sow in pans on a mixture of leaf mold two parts, soil one part, intermixed with clean sharp sand. Cover the seed thinly and water so as to moisten the soil. Cover with a glass and some papers to keep them shaded until they germinate. Seeds of *Cineraria hybrida* should be sown within the next two weeks to get strong flowering plants for the holidays. A cold frame is the most suitable place for these plants. When the seedlings are up lay off the sashes during good days, but replace them when heavy rain comes, leaving on a few inches of air. They should have movable screens placed over them from 9 a. m. until 3 p. m. to moderate the sun heat.

Next Week:—Antirrhinums for Next Winter; Care of Cyclamen; Mignonette; Mitraria; Seasonable Repairs; Renchias.

Bouvardias

Allow about 12 inches of room each way, making use of a mellow loam for planting. Flowers are not wanted on them at this season and the shoots should be kept pinched back whenever they show an inclination to flower. Nice stock out of 2-inch or 2½-inch pots planted out now will give the plants for benching in September. These flowers come in very handy during the winter. The only thing they want is good rich soil and a light house where the temperature can be kept at about 60 degrees at night. There is no more to their culture than other plants, such as roses or carnations require and you can have them in flower from October on to the last of March. See that they are well cultivated up to the end of August to keep them clear of weeds and the ground open. Where the ground is not very rich a dressing of pulverized sheep manure will tone up their growth.

Outdoor Roses

The June bug is one of the early callers and a marauder that defies the common tactics of the rose grower. Dustings and sprayings of deadly decoctions are of little avail in its case. Gathering the bugs by hand is the best way to bring about a noticeable scarcity of June bugs. Roses out of doors are hardly ever troubled by red spider, if well attended to, but when once infested it will be found that the evil is much harder to fight in the open than under glass. Syringing, forceful and often, in any event a great help to roses in hot and dry weather, is the remedy here as well as indoors. Some of our best roses always suffer more or less from mildew at about this time, notably moss roses, some of the hybrid perpetual class and nearly all of the multiflora section, of which Crimson Rambler is the most striking example. However, it can be checked to a considerable extent by a timely use of powdered sulphur, in mild but frequent applications.

Reminders

Thin out the hardy annuals to the final distance before they get crowded.

Keep the growing points of young vines tied in fairly close or they may be battered about if by wind.

Either mulch or cultivate regularly the borders where young shrubs are planted to keep the sun from the roots.

Cut all outdoors flowers for sending to a distance early in the morning and place them in water until the time comes for packing.

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HORTICULTURE

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A swindler

A florist of Philadelphia reports that some time ago he paid for a subscription to HORTICULTURE to a man posing as a representative of the paper and giving the name of F. Hill, but never received the paper. The man was an imposter. We give publicity to the fact here so that the trade may be forewarned in case any such party should show up. We again give notice to our readers that HORTICULTURE has no authorized traveling subscription solicitors.

Sweet pea weather

Whatever fault one may be disposed to find with the operations and vagaries of the weather thus far cannot fairly include any criticism of its effect on the

sweet peas, for conditions have been most favorable thus far for peas of any kind and should it continue on the same order there is indeed a treat ahead for the sweet pea lovers in the approaching July exhibition of the American Sweet Pea Society in Boston. This event in the past two years, at Newport and Bar Harbor respectively, was a keen disappointment to many growers who had made zealous preparation, and all on account of the transgressions of the weather. We hope that fortune will not relax in her amiable attitude this time and that the conditions now so promising may continue, in which case Boston and the sweet pea growers will have a spectacle to present which will richly repay a visit, even though the distance be long.

A noteworthy decision

The radical action in the matter of entertainment at the S. A. F. Convention next August, taken by the New York Florists' Club at its meeting on last Monday night, cannot fail to have a far-reaching effect on the future activities of the national society. It brings to a head in a very natural way, by reason of present economic conditions, that which has been in the heart of many well-wishers of the S. A. F. For a number of years, and for the first time in the history of that organization leaves the way open for any city that may follow New York as host of the S. A. F. to invite the Society without feeling obligated to emulate its predecessor and assume a heavy expenditure for elaborate entertainment. This step can be taken and deep-rooted traditions disregarded with a better grace by New York, perhaps, than by any other city in the country, for her ability and willingness to "go the limit" on entertainment are beyond question and no suspicion of grudging economy can attach to her action as might be the case with places of more limited resources. The S. A. F. will undoubtedly take the action of the New York Florists' Club in good part. It cannot be expected that all will be pleased but we believe the majority of visitors will heartily approve the stand and the motives which actuated the Club, while the greater freedom of movement thus made possible will be much appreciated by both visitors and the local trade.

Prudence

As for ourselves we are particularly pleased to note the disposition to restore to its pristine simplicity and unpretentious character the pleasant social feature of the S. A. F. conventions known as the president's reception. It is to be hoped that the spirit and the letter of the sentiments which seemed to actuate the decision of the New York Florists' Club may be observed and the visitors made to understand that they may leave their swallow-tails and other burdensome toggery at home this August and enjoy the pleasure of a hand-shake with their president and his staff in unconventional comfort. If this and other moderations which many of the S. A. F. members consider becoming in this exceptional year should be literally carried out and a serious business-like and business-helping convention should ensue, the effect upon the public opinion of the florist and his business cannot fail to be reassuring and salutary. What may happen any time now in this war-torn world of ours, no one can predict, and in observing "the eternal fitness of things" the Society of American Florists and the New York Florists' Club will, we believe, have done much toward winning for themselves and the floricultural interests they represent, that popular good will and respect which will soon be sadly needed if the "ruthless" campaign against so-called "luxuries" should continue.

ROSES AND PEONIES AT DREER'S

The genial June weather has at last brought the roses and peonies out in their glory, and advantage of this fine opportunity was taken by Howard M. Earl, George W. Kerr, Douglas Earl and the writer, on the 12th inst., the little party being carried in Mr. Earl's car, efficiently propelled by his son Doug'as, with the aid of a little gasoline, to Riverton and Buzzards Glory. Mr. J. D. Eisele was as ever the pink of courtesy and discoursed most interestingly on the merits of the new and old varieties in the testing grounds.

The rose trial beds are located at Riverton and comprise over five hundred of the new and standard varieties for testing and comparison. No new rose is listed until it has been tried out and found worthy for our climate, and no old variety is dropped until superseded by a better in its class. We mention here only a few of the most striking among the newer varieties that arrested attention in our brief run through.

Mme. Edmond Rostand—A large globular flower of great beauty, deep reddish orange in the center with light salmon outer petals. This is a Pernet-Ducher and, Mr. Eisele said, one of his greatest favorites.

Mme. Chas. Chambard—A fine white, one of Bernaix's introductions.

Daily Mail—This one created much attention in England some years ago and while it is a very odd color the flowers are not very lasting in our climate.

Admiral Ward—This splendid new crimson, named by Pernet-Ducher in honor of our own rose-loving Admiral, is showing up better than ever this year and promises to become very popular—perhaps in the same standard class as the now renowned little yellow, Mrs. Aaron Ward, introduced by the same raiser some ten years ago, and now a standard cut flower sort in the commercial market.

General McArthur—E. G. Hill has given us many fine things but we doubt if he has gained more plaudits for anything since he gave us this fine rose. One of the greatest of outdoor roses and while not a good forcer, crosses from it have made records in that direction. Remarkably good here this year. One-third more flowers than usual.

Mrs. Wakefield Christie-Miller—This well known standby still holds its own among the ideal roses for massing. Its bright pink flowers are very lasting and the plant remains a mass of bloom practically the whole season through. While this one has been with us now some seven or eight years

it is so good that we must still take our hats off to it in passing. One of the best things McGredy has given us.

Mrs. Weymss Quin—This beautiful new yellow, one of Alexander Dickson & Sons 1915 introductions, shows up well and bids fair to justify here the gold medal awarded to it in Paris last summer. Splendid form and color and deliciously fragrant.

Mme. Second Weber—Another of the older ones, but still unsurpassed in its class—the salmon pinks.

Los Angeles—Not extra fine on the occasion of our visit but Mr. Eisele has not abated a whit of his enthusiasm for this newcomer from the Pacific Coast. The recent severe rainstorms had hurt its showing for the time being. That one we started this story with (*Mme. Edmond Rostand*) beats it for the present in its class and color, but "wait a minute sez he."

Mrs. MacKellar—A beautiful lemon yellow, shading lighter in warm weather, large well formed flowers, vigorous growth—resembling in the latter connection the well known *Caroline Testout*. While only introduced a year ago it has been under test here for five years and shows up this year as fine as ever. Very free. Flowers all summer. This is one of the 1916 Dickson & Sons.

Ecarlate—We all delight in a pure brilliant color and this variety stands out strong in that respect. Not large but very free blooming and a dazzling scarlet. Raised by Boyard, 1907.

Mme. Jenny Gillemot—Another old one but so delicious in form, color and every other desirable quality that delighted salutes are in order in passing.

William Robertson Smith—Beautiful as ever, and helping to keep his memory green and fragrant among us as the years roll by.

Unnamed No. 11; Howard & Smith—A blush self, very large and fine. Looks like a comer.

Mme. Leon Pain—Another bright old lady, ever young. You simply cannot pass her by without making your very nicest obeisance.

We were just starting in at this point to enjoy the Penzance and other climbers when the auto horn sounded for on to the peony farm some six miles distant. Arriving there we were taken in charge by the peony expert of the firm Harry Sim. He showed us over some sixteen acres of all the reliable up-to-date varieties for commercial use explaining the good points of those that could be appreciated by the casual visitor. He was apologetic, however, on the general conditions as the plants had suffered badly from the drouth last summer. There are some eighty thousand plants in the collection.

G. C. WATSON.

State Horticulturist Dudley has condemned a carload of diseased nursery stock being sold in Augusta, Me. Mr. Dudley stated the roots of the trees were covered with hairy root and crown gall.

PEONIES CHARLEMAGNE AND ORNEMENT DES MASSIFS.

In the catalogues of dealers these two varieties are said to be the same. I wrote some years ago to my correspondent, Monsieur Dessert, that in my garden they were not alike, that Charlemagne was superior. I have obtained stock from France, Germany and America, all of which with the exception of the roots from one grower, were *Ornement des massifs*, a poor variety with dull pink color, in which the buds open badly. I was therefore glad to read Monsieur Lemoine's letter in the last number of *HORTICULTURE*, as it confirmed my experience. I object however to his use of the adjective "good" as applied to Charlemagne, as inadequate. Charlemagne is one of the aristocrats of the paeony world. It is more like a glorified blush rose in color, form, and perfume, than any other. It always opens well and comes so late as to be very welcome. It ranks nearly as high as Sara Bernhardt, Lemoine, and Lady Duff.

WILLIAM ROLLINS.

ROCK GARDEN PLANTS.

Editor, *HORTICULTURE*:

Could any of your readers give me a list of plants suitable for a rock garden to be raised from seed for planting next spring? E. M.

The season is rather far advanced for the sowing of hardy perennial rock-garden plants. The list, therefore, is shorter than it would have been had the question been asked in January or February. By sowing in cold frames now the following plants may be raised for planting next spring:

Alyssum saxatile compactum; *Aquilegia* varieties; *Arabis alpina*; *Armeria* in varieties; *Asters alpinus* and *subcœruleus*; *Campanula carpatica*; *Cerastium tomentosum*; *Dianthus*, dwarf mountain varieties; *Gypsophila cerastioides* and *G. repens*; *Helianthemum* hybrids; *Iberis sempervirens*; *Iris pumila* in variety; *Linum perenne*; *Lychnis alpina*; *Potentilla* in variety; *Primulas*, hardy vernal varieties; *Silene alpestris* and *S. Schaffta*; *Tunica Saxifraga*; *Veronica incana*, *repens* and *rupestris*; *Aubrietias* in varieties; *Viola cornuta* in variety.

RICHARD ROOTH.

Glenside, Pa.

PEONY SHOW AT PHILADELPHIA.

The Fourteenth Annual Exhibition of the American Peony Society opened at Philadelphia on the 13th inst. in Horticultural Hall. Up to mail closing time only eleven of the thirty-two classes had been judged so a detailed report will have to be deferred until next week. Messrs. Farr, Boyd, Wister and Newbold were the principal winners in the first nine classes. In classes ten and eleven there were thirty-six and twenty-three entries, respectively. To that the judges had quite a job awarding the two small prizes in each. All the other classes were well contested for and, all things considered, the show reflects credit on its sponsors.

BOSTON OUTDOOR JUNE FLOWER SHOW



VIEW IN ROSE GARDEN BY THOMAS ROLAND, NAHANT, MASS.

The weather of the past week has been far from favorable for the opening of the rhododendron flowers, which had been depended upon to fill so important a place in the attractions of the show. In consequence of this and in order that the public may have opportunity to see this great exhibition at its best it has been decided to hold it open until Wednesday night, June 20, at which time it will positively close. A good many changes have been made in some of the tents since last week, especially in the orchid tent where some of the rarer exhibits had to be removed to prevent injury from too long exposure to unaccustomed conditions. Among the new exhibits is a large display of grand show pelargoniums from E. S. Webster and an extensive collection of lilacs from the Arnold Arboretum. Professor Sargent contributes a fine group of tree peonies. *Rosa Hugonis* is shown for the first time, long arching sprays of bright single yellow roses, one of the finest hardy novelties which E. H. Wilson brought to us from China and which will undoubtedly prove a big factor in rose hybridization of the future. Professor Sargent's tree wisterias are now in full bloom, the long pendant racemes of the Japanese species being greatly admired.

The following awards have been made since *HORTICULTURE* went to press last week: Silver medals to Mrs. C. G. Weld for exhibit; Edwin S. Webster

for exhibit; Faulkner Farms for exhibit; William Sim for display of pansies; Mount Desert Nurseries for collection of Astilbes; J. T. Butterworth, collection of orchids. Miss Cornelia Warren was awarded honorable mention for display of calceolarias and orchids. Mrs. John E. Thayer was also awarded honorable mention for English ivy in pots. Henry Penn received a certificate of merit for exhibition of garden ornaments.

ORCHIDS AT BOSTON OUTDOOR JUNE SHOW.

Last week we published a picture of a part of the display in the orchid tent. The following notes in detail in the compilation of which we have been materially assisted by Mr. Walter Gott, of St. Albans, Eng., a keen observer in orchid exhibitions, may be of interest to our orchid loving readers.

Julius Roehrs Company, Rutherford, N. J., staged a most wonderful group. The background was composed almost entirely of *Dendrobium chrysotoxum*, intermingled with some finely grown plants of *Odontoglossum Pescatorei*. The centre was made up of *Miltonia vexillaria* in numerous varieties and the rare and beautiful *Miltonia St. Andre*. Also included in the group were grand forms of *Cattleya Mossiae* and *gigas Sanderiana*, *Odontia Bradshawiae*, several very fine plants of *Mossiae Reineckiana* and *Brasso-Cattleya Digbyana Mossiae* variety *robusta*, a specimen plant bearing ten

flowers, and *Brasso-Cattleya Maroniae*. Several beautiful forms of *Laelio-Cattleya Aphrodite* and seventeen different species of *Dendrobium* were also included. The whole group was beautifully and artistically arranged by Mr. Sealey and was probably the best effort this firm has ever made in Boston. Awarded a gold medal.

E. B. Dane, Roughwood, Brookline, Mass., superintendent Donald McKenzie, exhibited an excellent and exquisitely arranged group comprised of splendid forms of *Cattleya gigas* and *Sanderiana* and *C. Mossiae*, *Brasso-Cattleya Maroniae* and *Brasso-Cattleya Veitchii*; also some very fine plants and varieties of *odontiodas*. Also *Phalaenopsis Rimestadtiana* and *amabilis* which were beautifully bloomed, *Cypripediums Lawrenceanum*, *callosum Sanderæ*, *Garbari*, *Lebaudianum* and others. Some fine *odontoglossum* and grand plants of *Miltonia vexillaria*, *Masdevallia Harryana* and *Veitchii*, *Laelia-Cattleya Hyeana Sanders'* variety, *Vanda suavis* and *Cymbidium Lowianum*. Gold medal.

A. N. Cooley of Pittsfield, Mass., made his first appearance as an exhibitor in Boston and staged a magnificent group, which gained for him a gold medal. Included in his group were probably the finest *odontoglossums* and *odontiodas* ever seen in Boston. The following are a few of some of the rare and beautiful varieties which he exhibited: *Odontioda Gladys*, a magnificent plant with twenty-eight flowers; *O. crispum Moonbeam*, a magnificent plant and variety with two spikes carrying twenty-four flowers; *Odontoglossum ardentissimum* variety *Zenith*, a model flower of dark chocolate color; *crispum Xanthotes*, *eximium Xanthotes* and *crispum Leonard Perfect*; *Odontoglossum Her Majesty*, ten

which was especially fine, crispum Princess Mary, one of the best of the Pacho type; Odontioda Brewii, very dark with two spikes; a wonderfully flowered plant of Odontoglossum crispum-Harryanum with fifty-two flowers on one spike; Cattleya Mossiae Wagnerii nivalis, a pure white form with seven flowers; Laelia-Cattleya Domus, a noble variety; Cattleya Mossiae Cooleyanum, one of the finest forms with three flowers, also Brasso-Laelio-Cattleya Veitchii splendens and a beautiful bright Odontioda Chanticleer. The plants were of excellent culture and reflected great credit upon his orchid grower, Oliver Lines.

F. J. Dolansky, Lynn, Mass., occupied one end of the tent with an extra fine group of magnificent forms of Cattleya Mossiae, including three fine plants of Wagnerii, grand forms of Cattleya gigas Sanderiana and Mendelii, Odontoglossum Pescatorei and crispum and the odd and beautiful Brassia maculata. Awarded gold medal.

J. T. Butterworth, Framingham, Mass., was awarded a silver medal for a choice group which included several finely grown plants of Cymbidium Lowianum and Lowianum concolor; several plants of Dendrobium Jamesianum, the finest in cultivation; Cypripedium Olivia, Cattleya intermedia alba and the very rare Cattleya Mossiae Mrs. J. T. Butterworth carrying three extra fine blooms.

Mrs. C. G. Weld, Brookline, Mass., superintendent W. C. Rust, showed a very finely arranged group, including grand plants of Cattleya Mossiae and Cattleya gigas Sanderiana, Cypripedium Lawrencianum, Miltonia St. Andre, Brassia verrucosa, Odontoglossum triumphans and the beautiful Epidendrum vitellinum. Awarded a silver medal.

Mrs. Brandegee, Faulkner Farm, Brookline, Mass., superintendent William N. Craig, also occupied one end of the tent with several fine specimen plants of Laelia purpurata and Cattleya Mossiae, and a few fine grown plants of Selenipediums.

Edward A. Clark, Jamaica Plain, Mass., superintendent Mr. Golby, staged several fine plants of Miltonia vexillaria, one of which was an exceptionally fine variety; honorable mention.

Miss Cornelia Warren, Waltham, Mass., showed some exceptionally fine specimen plants of Oncidium flexuosum; honorable mention.

NEW HAVEN, CONN., EXHIBITIONS.

The New Haven County Horticultural Society opens its summer campaign this week, by holding its annual iris and peony show in the Free Public Library building, Friday and Saturday, June 15 and 16. Admission is free.

The rose show will be held in the Library building on Friday and Saturday, June 29 and 30. This will be one of the best shows of the year. The gladiolus show will be held on Friday and Saturday, August 24 and 25, and the annual exhibition on Wednesday and Thursday, September 19 and 20. The American Dahlia society has offered two silver medals and two bronze medals as premiums at the annual exhibition.

Obituary

Samuel Appleby.

Samuel Appleby, for over thirty years in the nursery and florist business at Catonsville, Md., died at his home, Swan avenue, May 29th, aged 83 years.

John Young.

John Young, florist, in the employ of Col. Samuel P. Colt, President of the United States Rubber Company, died suddenly at his home in Bristol, R. I., on Saturday, June 9. Mr. Young, who was about 80, was taken suddenly ill at his work in the greenhouses. He started home, but at the corner of State and Hope streets became exhausted and was assisted the remainder of the way by neighbors. Dr. O. R. Siegel found Mr. Young dead on his arrival. As medical examiner, the doctor pronounced death due to apoplexy. Mr. Young was a native of Scotland and in his youth served in campaigns in Egypt and in India. His wife and daughter survive him.

S. T. Minon.

Stephen T. Minon, whose death occurred June 7th at his home 2050 N. Karlow avenue, Chicago, was connected with the trade for many years, and was well known among the florists although not in the business for the past two years. He began when only a boy by working for Kennicott Bros., and was with them nineteen years, leaving for less confining work when his health became impaired, and shortly after opened a retail store at 2065 Milwaukee avenue. Here he remained six years, when he sold his store to Michael Fink and took a position as director with the Commonwealth Edison Co., Mr. Minon leaves a widow, two sons and a daughter.

Rodman M. Eisenhart.

Rodman M. Eisenhart, a well known flower grower of Philadelphia, died at his home in Holmesburg on June 12th. He was in his 65th year and had been a sufferer from angina pectoris for some time. His wife, two sons and a daughter survive. The sons were associated with their father in the business and will continue same. Mr. Eisenhart was born in Doylestown, Pa., and came to Philadelphia a quarter of a century ago. He made a specialty of growing violets, and some years ago added sweet peas when the winter flowering sorts began to be a big factor in the cut flower market. He was a member of the Florists' Club and S. A. F., and always took an active part in these organizations. Few men were better liked in the trade. He was a very genial companionable man, and respected by everybody and his memory will be held green and fragrant among us for many a day.

Visitors Register

Washington, D. C.—L. N. Pierce, representing J. J. Fallon, Lynchburg, Va.; Frederick W. Kelsey, New York.

Philadelphia—E. Gurney Hill, Richmond, Indiana; Gurney Mann, Richmond, Ind.; Robt. L. Graham, Baltimore, Md.

New York—Samuel Murray, Kansas City, Mo.; E. G. Hill, Richmond, Ind.; Joseph Heacock, Wyncote, Pa.; Fred. Burki, Gibsonia, Pa.; A. Rasmussen, New Albany, Ind.

Rochester, N. Y.—G. Reising, of L. Baumann, Chicago; Julius Berg, New York; William Baker, Binghamton, N. Y., and Stephen Green, representing H. Bayersdorfer & Co., Phila., Pa.

Book of Garden Plans

By STEPHEN F. HAMBLIN

Associate of Warren H. Manning,
Landscape Architect

The purpose of this book is to aid those who are planning gardens and country places to visualize problems similar to their own and to see how a landscape architect would solve them.

There are twenty plans of model gardens and places in the book with directions and planting lists for each. The plans are wide in their variety ranging from boulder walls, arbors, poppy beds, and special borders to the different kinds of formal and informal gardens, rock, water, woodland, Japanese, annual, and wild flower. Photographs illustrate the basic idea of each plan.

The author says of the book in his introduction:

"A rough plan, even if very incomplete, will often be far more helpful to explain arrangement and grouping than will pages of printed instructions. But so as to help make these plans more definite, an actual piece of property was in mind in each case.

"Supposing, then, that the main features on our imaginary piece of ground have been decided upon, he can refer to the blue prints and see how, by the arrangement of our garden material, we can best add to the natural beauties of the ground and give them the touch of human hands."

A final chapter gives information on the practical side of gardening—the trees, plants, shrubs, vines, etc., for various conditions, cost estimating, time for planting, and other details. 20 blue print plans. 32 pages of illustrations. Net \$2.00.

For Sale at

Office of HORTICULTURE.

CLUBS AND SOCIETIES

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The next regular meeting of the club will be held at Horticultural Hall on Tuesday evening, June 19, there will be no regular lecture as a dance and collation will follow the business session. A charge of fifty cents per head will be made for the entertainment and tickets may now be had from all officers.

The club has recently purchased a \$500 Liberty Loan Bond from its surplus funds. Many members have also subscribed. At the September meeting of the club William H. Elliott will speak on California. At the October meeting, there will be two lectures on vegetables from the commercial and private growers' standpoints. Competitive exhibition will also be held and it is planned to have them open to the public for at least a part of one day.

A chrysanthemum night and special exhibition will be held early in November. This also will be open for public inspection. W. N. CRAIG, Secy.

CHICAGO FLORISTS' CLUB.

The Chicago Florists' Club held its regular meeting June 7th, with reports of various committees as the chief feature. The picnic committee offered no definite recommendation and the matter laid on the table. The transportation committee reported the New York Central to be the official train to the S. A. F. & O. H. convention in August, with stopovers arranged for on return trip. The coal question was brought up, but met with little discussion, not from lack of interest, but because of seeming inability to better conditions. The garden committee reported and was discharged. A report was made by the committee on advertising posters, used in the campaigns for St. Valentine's Day and Mother's Day, showing that when returns are all in the amount of money will be well into the thousands. A plan for a summer advertising campaign in the daily papers was submitted and \$150 was voted by the club as its share should the proposition be carried out. John Young of New York was a visitor. New members admitted were Frank Felke, Gross Point, Ill., H. V. Swenson, 624 S. Michigan avenue, and H. E. Humiston, 2109 Summerdale avenue.

FLORISTS' HAIL ASSOCIATION OF AMERICA.

The directors of the Florists' Hall Association of America held a meeting at Trenton, N. J., on Friday, June 8, 1917, at which meeting initial action was taken for the extension of their corporate existence for another 30 years under the terms of the laws of

Meetings Next Week

Monday, June 18.

Detroit Florists' Club, Bemb Floral Hall, Detroit, Mich.
Houston Florists' Club, Chamber of Commerce Rooms, Houston, Tex.
New Jersey Floricultural Society, Orange, N. J.

Tuesday, June 19.

Gardeners' and Florists' Club of Boston, Mass., Horticultural Hall.
Gardeners' and Florists' Club of Ontario, St. George's Hall, Toronto, Can.
Minnesota State Florists' Association, Minneapolis, Minn.
Pennsylvania Horticultural Society, Horticultural Hall, Philadelphia, Pa.

Wednesday, June 20.

Rhode Island Horticultural Society, Public Library, Providence, R. I.
Tarrytown Horticultural Society, Tarrytown, N. Y.

Thursday, June 21.

Essex County Florists' Club, Kreuger Auditorium, Newark, N. J.
New Orleans Horticultural Society, Association of Commerce Bldg., New Orleans, La.
North Westchester County Horticultural Society, Mt. Kisco, N. Y.
Tacoma Florists' Association, Macabee Hall, Tacoma, Wash.

Friday, June 22.

Connecticut Horticultural Society, County Bldg., Hartford, Conn.
Monmouth County Horticultural Society, Red Bank, N. J.
Pasadena Horticultural Society, Pasadena, Calif.
People's Park Cottage Gardeners' Association, Paterson, N. J.

Saturday, June 23.

Dobbs' Ferry Gardeners' Association, Dobbs' Ferry, N. Y.

New Jersey, as passed by the New Jersey legislature last winter.

They also approved of and will recommend a new set of by-laws drawn by J. A. Valentine of Denver, Colo., which improves upon and puts in legal form the by-laws used for the past 30 years.

The proposition of cyclone insurance, submitted by Anders Rasmussen of New Albany, Ind., was not taken up for the reason that the law under which the Florists' Hail Insurance re-organized only recognizes hail as the form of destruction to be insured against.

The annual meeting of the Association will be held at Newark, N. J., at 2 P. M. on August 20, 1917.

JOHN G. ESLER, Secy.

NEW YORK FEDERATION.

The New York Federation of Horticultural Societies and Floral Clubs will hold a meeting in Syracuse on Thursday, June 28, in connection with the annual exhibition of the Syracuse Rose Society. It is hoped that there may be a large attendance of delegates from the federated societies.

E. A. WHITE, Secy.

NEW YORK FLORISTS' CLUB.

The New York Florists' Club meeting on Monday evening, June 11, will go down into history as a memorable event in the club's career. There were present about 125 members, including a large percentage of men influential, not only in the affairs of the local organization, but of the National Society, and prominent leaders in the trade.

As is generally known, a large appropriation for entertainment and other local matters connected with the approaching S. A. F. Convention had been planned and a number of special committees had been constituted to perfect arrangements accordingly. It was understood that these committees would make report at this meeting but that in view of the war situation the advisability of carrying out the original plans would be brought into question. E. C. Vick, as secretary of the ways and means committee, having read the reports and amounts needed by the various sub-committees, the discussion on the general entertainment proposition was opened by Patrick O'Mara in opposition, who ably displayed his powers as a forceful debater, urging careful and earnest consideration of the appropriateness of any action at this time bordering on unnecessary extravagance, declaring that the New York florists' moral courage was now challenged and that the time was opportune to make a stand for the uplift and repute of future conventions. Other speakers on the subject included James Scott, Charles Schenck, W. Siebrecht, Jr., F. H. Traendly, L. W. C. Tuthill, W. A. Manda and others, expressing variant views on the problem. W. A. Manda made one of his best efforts in an impassioned and eloquent address on what he regarded as an inhospitable backing-down by New York and far from creditable to the club after having assumed the responsibility of host to the expected visitors. The outcome of the discussion was a complete victory for O'Mara and the advocates of patriotic economy, who carried practically every trench, turning down all appropriations excepting that for entertaining the ladies and a few minor matters, discharging the committees with thanks for their services and agreeing to stand responsible for any contracts or other obligations that had been assumed. It was the sense of the Club that the President's Reception be held, not in the most sumptuous hotel in New York as proposed, but in the meeting room in the Grand Central Palace. It was then voted that \$5,000 of the Club money be invested in Liberty Bonds, in accordance with the recommendation of the trustees and that \$1,000 in cash be appropriated for the Red Cross.

Following the usual recess, Leonard Barron gave his promised lecture on Hawaii, holding his audience for an hour, although the hour was late. The views thrown upon the screen, beautifully colored, were superb and Mr. Barron's splendid effort in description



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THE VERY NEWEST AND QUICKEST METHOD OF DESTROYING WEEDS, GRASS AND OTHER GROWTH IN GARDEN WALKS, GUTTERS, TENNIS COURTS, DRIVEWAYS, ETC.

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of the scenery, flora, customs and people of the Gem of the Pacific will long be enjoyed in recollection by those who were privileged to see and listen.

On the exhibition tables were some beautiful named varieties of German Iris sent by the Garden Magazine and a fine plant of Nierembergia rivularis from P. W. Popp. It was decided to hold a special meeting on the second Tuesday in July. Six new members were admitted.

WESTCHESTER AND FAIRFIELD HORTICULTURAL SOCIETY.

The Westchester and Fairfield Horticultural Society held its regular meeting on Friday evening, June 8th, in Hubbard's Hall, Greenwich, Conn. After the usual business session James Stuart of Mamaroneck addressed the Society on the culture of cyclamen. His remarks were both in-

teresting and instructive and he was extended a rising vote of thanks.

There is always a fine display on the exhibition tables at our meetings and the June meeting was no exception. Awards were made as follows:

Cultural certificate to James Stuart for *Cyrtopodium punctatum*; very high commendation to James Linaine for a collection of flowering shrubs, J. B. Roy for a vase of *Pentstemon* hybrids, Paul Davenger for lettuce "May King" and cauliflower Snowball, Robt. Grunert for sweet peas and tomatoes, and Alex. Clarkson for Spanish iris. The thanks of the society was awarded to Wm. Graham for campanula and an-tirrhinum, Robt. Grunert for lupinus, aquilegia and sweet peas, P. W. Popp for *Nierembergia gracilis*, and Alex. Clarkson for Darwin tulips.

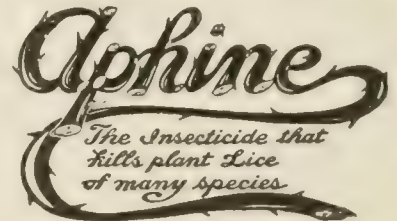
The summer show will be held at Rye this year, June 19 and 20, and it is under the auspices of the Rye Red Cross, so it is to be hoped that the members will help in making it a success as it is for a worthy cause, and the gardeners by bringing exhibits will help it along as all the drawings and prize money goes to the Red Cross. The society is going to buy \$500 worth of Liberty Bonds as agreed to by unanimous vote.

ALEX. CLARKSON, Cor. Secy.

HOLYOKE AND NORTHAMPTON FLORISTS' AND GARDENERS' CLUB.

The regular meeting was held June 5th at the Butler & Ullman green-houses, Northampton, a goodly number of members being present. Some discussion took place regarding the annual Fall Flower Show, and it was decided to co-operate with the garden committee of the Holyoke Chamber of Commerce, which is planning an exhibit of garden produce. More than one thousand new home gardens and one thousand school gardens have been started in Holyoke, and about six hundred school gardens in Northampton. Several members of the club are assisting in this work. A committee was appointed to arrange a schedule of exhibits, no money premiums to be offered. G. H. Sinclair gave a talk on the culture of hydrangeas as pot plants. Darwin and May flowering tulips were shown in variety by Sinclair & Son and Gallivan Bros. Butler & Ullman arranged a miscellaneous exhibit, including Spanish iris, *ixias*, *centaurea* and *delphinium*.

The Binghamton (N. Y.) Florists' Association met in Hotel Bennett, Monday night, June 4. A talk was given by William Schmeiskey of the Binghamton State Hospital on "Carnation Culture."



The Recognized Standard Insecticide.

A spray remedy for green, black, white fly, thrips and soft scale.

Quart, \$1.00; Gallon, \$2.50.

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For mildew, rust and other blights affecting Grains, fruits and vegetables.

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For eel worms, angle worms and other worms working in the soil.

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Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pets. Excellent as a wash for dogs and other animals. Relieves mange. Dilute with water 30 to 50 parts.

½ Pint, 25c.; Pint, 40c.; Quart, 75c.;

½ Gallon, \$1.25; Gallon, \$2; 5 Gallon Can, \$9; 10 Gallon Can, \$17.50.

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Try with 24 parts water. Often effective weaker.

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SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Kirby B. White, Detroit, Mich.; First Vice-President, F. W. Bolgiano, Washington, D. C.; Second Vice-President, L. L. Olds, Madison, Wis.; Secretary-Treasurer, O. E. Kendel, Cleveland, O.—Convention at Detroit, June 19, 1917.

How Seedsmen Will Help the Farmer.

Washington, D. C.—No agricultural production can be successful unless a good stand of the crop is secured in the field. A full stand cannot economically be obtained if seed of unknown quality is used. With a view to devising some practical means for furnishing the farmer essential information concerning the commercial seeds he is buying, the Secretary of Agriculture recently invited representatives of the seed trade to confer with the Department on the subject. Officers of the American Seed Trade Association and of the Wholesale Grass Seed Dealers Association, as well as representatives of twenty-one leading seed firms, were present.

Because of the vital importance of the matter in relation to the effort to enlarge the production of staple food and feed crops, the Department suggested that the seed trade voluntarily furnish the following information with the field crop seeds they sell.

1. Name of seedsmen.
2. Kind of seed.
3. Proportion of pure live seed present, with month and year of germination test.
4. Country or locality of origin in the case of the following imported seeds: beans, soy beans, Turkestan alfalfa, and red clover from Southern Europe and Chile.

The representatives of the seed trade present agreed to adopt these suggestions with reference to their own business, and the officers of the associations represented agreed to recommend that these suggestions be adopted by all firms included in their membership. The question of such adoption is now being submitted to individual seedsmen members not present at the conference for their approval.

It is contemplated that the information outlined above will be furnished by seedsmen, with all field crop seeds, when sold in lots of ten pounds or over and that this plan will be put in full operation not later than July 1, 1917. The United States Department of Agriculture, through the Seed Testing Laboratories of the Bureau of Plant Industry, will render such assistance in carrying out this plan as the facilities permit through the making of actual analyses of samples of seed.

Your ad. on Hydrangeas was very effective and has helped me to dispose of two houses of Hydrangeas for Memorial Day. We have had a great many letters telling us how fine the stock is.

Thanking you, I am

Yours very truly,

A. L. MILLER.

MICHELL'S NEW CROP PANSY SEED



MicHELL's Giant Exhibition Mixed. A giant strain, which for size of bloom, heavy texture and varied colors and shades cannot be surpassed. Half trade pkt. 30c.; 50c. per trade pkt.; 1/8 oz. \$1.00; \$6.00 per oz.

Giant Trimardeau Mixed. Large flowering and choice colors. Trade pkt. 30c.; \$1.25 per oz.

Also Giant Prize and Regular sorts in separate colors.

CYCAS STEMS

\$2.50 per 25 lbs.; per 100 lbs. \$9.00; case lots (about 300 lbs.) at 8 1/2c. per lb.

Also all other Seasonable Seeds, Bulbs and Supplies. Send for Wholesale Catalog.

MICHELL'S SEED HOUSE '518' MARKET ST. PHILA.

"Seeds with a Lineage" All Varieties
Thoroughly tested at our trial grounds, Raynes
Park, London, England. Send for Catalogue

CARTERS TESTED SEEDS, Inc. 166 Chamber of Commerce Bldg., Boston, Mass.

DUTCH CARGO SHIPS LEAVE FOR AMERICA.

Rotterdam.—The steamships Amsteldyk and Beukeldyk of the Holland-America Line sailed for America on June 8. These vessels were the first ships to leave with cargoes in the last four months, or since the commencement of the ruthless submarine campaign. They are also the first cargoes to sail under the new arrangements made with the British Government and the concessions granted to the Dutch Government. England has now arranged that outward-bound Dutch ships leaving under the Overseas Trust conditions, can call at Halifax or alternatively that ships will not be interfered with if provided with manifests approved by the Allies.

The cargo of the Amsteldyk consists mainly of sugar beet seed which was unloaded from the Noordam just before she sailed May 15. Otherwise the cargoes are miscellaneous. The American Legation at The Hague has been especially active in making arrangements and obtaining concessions for the shipment of these goods. It is stated, however, that great anxiety and uncertainty reigns in Rotterdam shipping circles and even at the Holland-America Line as to whether Germany will consider all cargoes bound for America contraband.

NEWS NOTES.

Boonton, N. J.—The Onaway Greenhouses have been purchased by Arthur Taylor.

Forest Glen, Ill.—The Brant & Noe

Floral Company has increased its capital stock to \$150,000.

Wilmington, Del.—Local florists have complained to Chief of Police Black about the practice of Philadelphia flower vendors invading the local street markets on Wednesday and Saturdays and also of standing on the curbs on Saturday nights selling flowers. It is claimed that these dealers pay no state license, rent or wages to employees and compete with local florists who maintain large plants all the year around at a considerable expense. The habit will be stopped.

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**Worm Food gets them
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BULB STOCK

Dwarf Double Pearl Tuberoses

Special prices on application.

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SPECIALIZE IN

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WHOLESALE ONLY

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LET US QUOTE YOU PRICES

"A B C BRAND"

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**Careful Seed Growers For
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Send for Our 1917 Wholesale Prices
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ORDER NOW

ASPARAGUS PLUMOSUS NANUS SEED, greenhouse grown, \$3.50 per 1000, \$15.00 per 5000, \$27.50 per 10,000; Lath-house grown Seed, \$2.00 per 1000, \$9.00 per 5000, \$17.50 per 10,000. Asparagus Sprengerii Seed, 75c. per 1000, \$3.00 per 5000.

S. S. SKIDELSKY & CO.

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**MY WINTER-ORCHID-FLOWERING
SWEET PEA**

Price list has been mailed. It contains many splendid Novelties. If you have not received a copy send postal for.

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R. & J. FARQUHAR & CO., Boston, Mass.

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FOR SALE BY

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LILIUM GIGANTEUM

NEW CROP NOW READY.

	Per 100	Per 1000
7 to 9 in. (300 bulbs to case)...	\$5.50	\$50.00
8 to 9 in. (250 bulbs to case)...	7.00	65.00
8 to 10 in. (225 bulbs to case)...	9.00	80.00
9 to 10 in. (200 bulbs to case)...	10.00	95.00

A. HENDERSON & CO.

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Burpee's Seeds
PHILADELPHIA

BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
FOR PROFIT

THOMAS J. GREY COMPANY
SEEDS, BULBS AND IMPLEMENTS
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11/13, 100 to a case.....	15.00 per case
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9/10, 180 to a case.....	90.00 per 1000
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BET, CARROT, PARSNIP, RADISH and
GARDEN PEA SEED in variety; also other
items of the short crop of this past season.
as well as a full line of Garden Seeds, will
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NEW FLOWER STORES.

Pawtuxet, R. I.—Walter Lowe, removing to 2202 Broad St.

Calumet, Mich.—Pearce Floral Co., Brown & Petermann store.

Lynn, Mass.—Southworth, the florist, removing to 149 Munroe St.

Lansing, Mich.—Atlas Floral Co., succeeding the Lansing Floral Co.

Berkeley, Cal.—Mrs. Rolfe, 2315 Telegraph Ave., succeeding B. W. Perks Co.

South Manchester, Ct.—Bon Ton Flower Shop, removing to Main St. and Brainard place.

Yonkers, N. Y.—New York Floral Co., removing to Manor House Square and North Broadway.

DETROIT FLORISTS' BILLBOARD.

Detroit members of the Florists' Telegraph Delivery Association have added outdoor painted bulletins to their general advertising plan. A number of large forceful bulletins on the main thoroughfare are creating considerable favorable attention. Each member is assessed a proportionate sum, paid monthly to the advertising concern, and the list of members is so arranged that each member heads the list on at least one bulletin.

Secretary Albert Pochelon is very enthusiastic over the undeveloped possibilities of the Floral Telegraph business, and looks forward to the time when association members of other cities will adopt like methods to promote a greater inter-change of floral telegraph business. The bulletin shown in the photograph is twelve feet high and fifty feet long. The design is the product of the studios of Walker & Co.

JOHN BREITMEYER'S SONS

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High Grade Cut Blooms**

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WASHINGTON, D. C.

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Best Florists in the States as
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ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
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761 Fifth Ave.

NEW YORK CITY

Member Florists' Telegraph Delivery Asso.

YOUNG & NUGENT

42 West 28 Street

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Members Florists' Telegraph Delivery

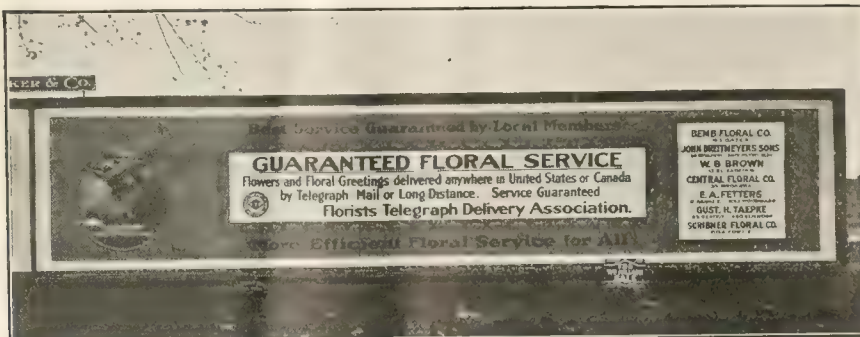
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MEMBER F. T. D. A.



DETROIT FLORISTS' BILLBOARD.

CHICAGO Send Your Orders to WILLIAM J. SMYTH

Member Florists' Telegraph
Delivery Association

Michigan Ave. at 31st Street

Prompt Auto Delivery
Service

THOS. F. GALVIN
INC.
NEW YORK 561 Fifth Ave.
Vanderbilt Hotel
BOSTON 1 Park Street
799 Boylston Street
Deliveries to Steamers and all Eastern Ports

CLEVELAND
A. GRAHAM & SON
5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

Orders Filled Day or Night for
CLEVELAND
and State of Ohio
Complete Stock. Regular discount to Trade.
KNOBLE BROS.
1896 W. 25th St., Cleveland, O.
Members Florists' Telegraph Delivery Ass'n.

THE SMITH & FETTERS CO.
735 Euclid Avenue
CLEVELAND, OHIO
Flowers of Every Kind in Season

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1532.
1415 Farnum St.,
OMAHA, NEB.

Rochester, N. Y.
J. B. KELLER SONS,
FLORISTS
25 Clinton Avenue, N.
Rochester Phone 506. Long Dist. Bell Phone 2786
Members Florists' Telegraph Delivery

S. A. ANDERSON
440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
Stock and prompt deliveries in BUFFALO,
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK
Members of Florists' Telegraph Delivery.

HIGH GRADE PLANTS
For Retail Stores a Specialty
ASK FOR LIST
THOMAS ROLAND, Nahant, Mass.
WORCESTER, MASS.
Randall's Flower Shop
HARRY L. RANDALL, Proprietor.
Mention Florists' Telegraph Association

Flowers by Telegraph

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

Albany, N. Y.—H. G. Eyres, 106 State St.
Albany, N. Y.—The Rosery, 23 Steuben St.
Boston—Thos. F. Galvin, 1 Park St.
Boston—Penn the Florist, 124 Tremont St.
Boston—Zinn The Florist, 4 Park St.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.

Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan
Ave. and 31st St.
Cleveland, O.—J. M. Gasser Co., Euclid
Ave.

Cleveland, O.—Adam Graham & Sons,
5523 Euclid Ave.
Cleveland, O.—Knoble Bros., 1836 W. 25th
St.

Cleveland, O.—The Smith & Fettes Co.,
735 Euclid Ave.
Denver, Col.—Park Floral Co., 1643
Broadway.

Detroit, Mich.—J. Breitmeyer's Sons,
corner Broadway and Gratiot Ave.

Houston, Tex.—Kerr, The Florist.
Kansas City, Mo.—Samuel Murray, 1017
Grand Ave.

Los Angeles, Calif.—Howard & Smith,
853 So. Olive St.

New London, Conn.—Reuter's.
New York—J. H. Small & Sons, 505 Mad-
ison Ave., at 52d St.
New York—David Clarke's Sons, 2139-
2141 Broadway.

New York—Alex. McConnell, 611 5th Ave.
New York—Young & Nugent, 42 W. 28th.
New York—A. T. Bunyard, 413 Madison
Ave., at 48th St.

New York—Dards, N. E. corner 44th St.
and Madison Ave.

New York—Max Schling, 22 W. 59th St.
New York—G. E. M. Stumpp, 761 Fifth
Ave.

New York—Thos. F. Galvin, Fifth Ave.,
at 46th St.

Norwich, Conn.—Reuter's.
Omaha, Neb.—Hess & Swoboda, 1415
Farnum St.

Rochester, N. Y.—J. B. Keller Sons, 25
Clinton Ave., N.

St. Louis, Mo.—Fred C. Weber, 4326-28
Olive St.

St. Louis, Mo.—F. H. Weber's, N. E. cor-
ner of Taylor and Olive Sts.

St. Paul, Minn.—Holm & Olson, Inc.
Tarrytown-on-Hudson, N. Y.—F. R. Pier-
son Co.

Toronto, Can.—J. H. Dunlop, 8-10 West
Adelaide St.

Washington, D. C.—Gude Bros., 1214 F
St.

Washington, D. C.—George H. Cooke,
Connecticut Ave. and L St.

Westerly, R. I.—Reuter's.
Worcester, Mass.—Randall's Flower Shop,
22 Pearl St.

Send Telegraph, Telephone or Mail orders
for florist service in this vicinity to

Howard & Smith
853 SO. OLIVE ST.

Los Angeles, Calif.

Every Order sure to receive
prompt and careful attention.

REUTER'S Members Florists'
Telegraph
Delivery

STORES IN

New London and Norwich, Conn.
and Westerly, R. I.

We cover the territory between
New Haven and Providence
ST. LOUIS, MO.

FRED C. WEBER
4326-28 Olive St.

Member Florists' Telegraph Delivery Association
NOTICE INITIALS. We have one store only

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

The Far-Famed Flowers of
TORONTO

Delivered on mail or telegram order for
any occasion, in any part of the Dominion.

JOHN H. DUNLOP
8-10 West Adelaide St. - TORONTO, ONT.

ALBANY, N. Y.

EYRES
Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

106 STATE STREET, ALBANY, N. Y.

"THE HOME OF FLOWERS"

The largest cut flower store in America.
Orders for the TWIN CITIES and for all
Northwestern points given prompt at-
tention

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

The Park Floral Co.

J. A. VALENTINE, Pres.

Members Florists' Telegraph Delivery.

DENVER, COLORADO



KERR ORDERS FOR TEXAS
HOUSTON, TEXAS
The Florist Member F. T. D. Association

NEWS ITEMS FROM EVERYWHERE

BOSTON.

The Massachusetts Horticultural Society passed the eighty-eighth anniversary of its founding on Tuesday, June 12. The first annual exhibition of the society was held in September, 1829.

Ernest Borowski, a florist of Roslindale, together with a young lady with whom he was riding in his auto, was severely injured in collision with a touring car which ran into his machine and completely wrecked it, last Saturday evening.

A "punishment lot" for Somerville boys who trespass on gardens under cultivation and commit other acts of mischief is to be established on Central Hill. Here boys who have been found guilty will work out their sentences under the supervision of a member of the recreation committee. Somerville is the first city to adopt this method of punishment for juvenile offenders. Last year two boys, who stole pears from a woman's orchard, were obliged to keep the walks around her home clear of snow during the past winter as a sentence.

The lilacs are the big attraction at the Arnold Arboretum this week. Never before in the history of the Arboretum were the lilacs so late in blooming. They are now opening rapidly, however, and for the next three weeks there will be an uninterrupted succession of bloom. The lilac parade has made the Arnold Arboretum famous, and thousands of people come from all over New England, and even from distant states, when they learn that the lilacs are in bloom. Rochester, N. Y., is the only other city in the country which has a collection of lilacs which can approach that at the Arnold Arboretum.

The Harvard University School of Landscape Architecture has established a summer course in Horticulture. Plant study and appreciation, lectures and special readings; identifications in class-room, and field excursions are on the program. This course is designed to make the student acquainted with the summer appearance of the more common of our native trees and shrubs, as well as of some of those introduced from other countries for ornament in our parks, gardens, and private estates. It is planned to give a similar course in alternate years on herbaceous plants grown for ornament in private gardens and in parks, and on annuals used in school gardens.

Summit, N. J.—The senior class in Kent Place school requested its friends to devote the money they ordinarily would spend for flowers for the graduates to a fund to care for a French baby in the war zone. At the commencements heretofore there has been a profusion of flowers for the seniors, some pupils getting as many as one dozen bouquets.

CHICAGO.

Darwin tulips came to an end while the demand for them was just at its height. There long graceful stems made them an easy prey to the cold north wind and the pelting rain.

Sharp, Partridge & Co., report the glass market very firm at from five to six dollars per box, on small orders, and predicts no surplus on account of the great amount being required to replace the loss by wind and hail this season.

Lester E. Partridge, of Sharp, Partridge & Co. has the sympathy of the trade in the loss of his mother, Mrs. Jane Earle Partridge at Cleveland, O., June 7th. Mr. and Mrs. Partridge were pioneers of northern Illinois. The funeral was held at Ivanhoe near Libertyville, Ill., on June 10.

Flowers are doing their bit towards relieving the sufferings of war in other ways than as expressions of sympathy. In the suburban towns, the flower gardens are used to raise money for the ambulance funds, and while these sales do not directly benefit the florist it helps to keep flowers out of the class of luxuries and gives the newspaper reporters a chance to write something for flowers instead of against them as has been the tendency all the spring. This week Mrs. A. E. Cook of Evanston is giving her acre of peonies towards the ambulance fund of the Chicago College Club.

NEW YORK.

Ed Roehrs, who has been in the hospital following an operation for appendicitis, is home again in Rutherford, fully recovered.

Word has been received that J. N. May, Jr., who sailed in company with a large number of fellow students from Princeton College to serve in the Ambulance Corps in France, had arrived safely at his destination.

A. J. Guttman in commenting upon his firm's removal to 111 West 28th street, jointly occupied by the United Cut Flower Co., states that the two concerns will by this arrangement save about \$5,000 a year each in overhead expense, while the available space in the large store and basement is ample for both.

ROCHESTER, N. Y.

Schuyler Arnold is shipping some fine aster plants to this city.

Frank McLins has bought out the business of J. C. Brown and has taken possession.

Wm. Baker, formerly of Buffalo visited the trade here last week and may locate in Rochester.

Lilac day at Highland Park was postponed from June 3 to June 10 because of the cold weather and heavy rains.

The Wilson Floral Co. opened a wholesale establishment at 41-43 Stone street, June 9th. The trade wishes them success.

PITTSBURGH.

E. E. Ludwig has enlisted with Ambulance Co. No. 4, N. G. P., which will leave shortly for "somewhere in France."

As a member of the Tenth regiment, N. G. P., Milton Griffith, proprietor of the Monessen Flower Shop, expects to be called out for duty in July. He will leave his business in charge of a cousin.

Ernest R. Bolton, who recently resigned as assistant foreman on the Henry J. Heinz estate, has been engaged to assume charge of the Charles E. Dinkey estate in Braddock, succeeding "Jack" Bysouth, who left to go to France with the U. S. Engineering Corps.

The junior employees of the E. C. Ludwig Co. patriotically raised money for a handsome silk flag which was unfurled on last Tuesday afternoon with appropriate ceremonies. The committee in charge includes John T. Hoffman, chairman; John H. Coney, Leo Christy, James E. Stoner, Joseph Azzarella and Robert Julius Taiber.

The prizes recently offered by the A. W. Smith Co. for street car advertising posters designed by public school pupils have been awarded as follows: Miss Viola Perry, \$25; Clarence Grundish, \$15, and Samuel P. Morrison, \$10. Several others received honorable mention and the entire display forms a fine exhibition in the store room this week.

John R. Bracken has assumed charge of the gardens in Arnold and Monongahela, Pa., financed by the American Window Glass Co., under the supervision of Norman S. Grubbs, agriculturist of the Allegheny County Farm Bureau. Prior to going east, Mr. Bracken was an attache of the landscape department of the A. W. Smith Co.

ST. LOUIS.

National flower show committees met here, Saturday June 9th, at Jefferson Hotel.

The Retail Association will have a "get-together" meeting on Monday the 18th.

On and after the 16th of June wholesale houses will close daily at 5 P. M., and on Saturdays at noon.

The growers' meeting took place at the Nine-Mile House, Wednesday, June 6th. A good attendance was there.

A site has been selected and a temporary show building, costing \$60,000, will be opened in St. Louis. There will be 90,000 square feet of floor space. The following named gentlemen attended the meeting at Jefferson Hotel: R. C. Kerr, Houston, Tex.; John Young, N. Y.; J. J. Hess, Omaha, Neb.; George Asmus, Chicago; Patrick Welch, Boston; Adolph Farenwald, Roslyn, Pa.; A. F. J. Bauer, Indianapolis, Ind.; D. G. Geddis, and F. H. Meinhart, representing local florists.

GOLDEN WEDDING OF ABRAM L. PENNOCK.



PENNOCK FAMILY GROUP.

Taken at the Golden Wedding Anniversary of Abram L. Pennock

Abram L. Pennock and wife (nee Anna M. Cadwalader) celebrated their golden wedding at Lansdowne on the 5th inst. Some forty of the family took part in the function which was strictly private and confined to immediate relatives. Mr. Pennock was born Nov. 3rd, 1827, on the ancestral homestead, 12th street, below Market, Philadelphia—so that by his next birthday he will have reached the venerable age of 90. His connection with the flower business dates back to 1861, when he formed a partnership with his brother, J. Liddon Pennock, under the title of Pennock Bros., and did business there for over a dozen years. In 1870 an interest in the business was acquired by John Westcott and Thomas Cartledge. Some six or eight years afterwards Herbert A. Pennock was given a portion of his father's interest and became a member of the firm. He had been the confidential bookkeeper for the company for many years. In 1875 the property at 12th and Market streets was sold to make way for what is now the Wm. Penn Charter School, and the firm bought the property at 1514 Chestnut street, where it still remains. Mr. Westcott and Herbert A. Pennock sold out their interests in 1892, and Mr. Cartledge was succeeded by his son, Alfred B., in 1896—who with J. Liddon Pennock, Jr., now constitutes the firm, the founder, Abram L. Pennock, retaining only a financial interest. From this it will

be seen that while retired from active business for some years Abram L. Pennock has been a prominent factor in the florist world of Philadelphia for over half a century, and is its "grand old man." He has been not only a great business man but is a wit, philosopher and poet, and has been a benign influence with all with whom he has come in contact during his long and distinguished career. His ancestors came over with William Penn and the numerous descendants have added luster to the name as generation succeeded generation. There are many distinguished Pennocks in the front ranks today in many walks of life, and they but follow in the footsteps of their fathers, of whom none is held in greater esteem than the subject of this sketch—the modest, gentle, wise and unassuming Abram L. Pennock—one of the finest men I have ever known. Herbert and Henry are in Florida growing Asparagus ferns and other greens for the northern market; George and Caspar are among the big rose growers for the Philadelphia trade; Liddon is in the front rank of the retailers, and Samuel is the guide, philosopher and friend of the growers and retailers, "benefiting both groups and getting cussed accordingly."

To Leisureland

where woods are cool, streams alluring, vacations ideal. Between New York City (with Albany and Troy the gateways) and

Lake George
The Adirondacks
Lake Champlain
The North and West

The Logical Route is "The Luxurious Way"

Largest and most magnificent river steamships in the world

DAILY SERVICE

Send for free copy of Beautiful "Searchlight Magazine"

HUDSON NAVIGATION COMPANY

Pier 32, North River

New York

"The Searchlight Route"

PERSONAL.

John L. Ahlquist, proprietor of the Plainville (Ct.) Greenhouses, and Miss Irene La Vasseur, were married June 5.

Martin E. Tuohy, retail florist of South Boston, Mass., and Miss Alice B. O'Brien, of Cambridge, will be married on Saturday, June 30.

Miss Ethel Violet, daughter of Mr. and Mrs. David F. Roy, The Moorings, Marion, Mass., and Roland Starr Dominie were married at Marion, on June 9.

On Tuesday, June 12, Miss Marie Uzella, daughter of Mr. and Mrs. John G. Esler, and James Marshall Willey were married at Saddle River, N. J.

Meriden, Conn.—In spite of the drastic laws against trespassing on home gardens, wholesale thefts of garden plants are reported by Joseph A. Greenbacker, the florist. Mr. Greenbacker offers \$25 reward for any information leading to the detection of the person or persons who stole tomato plants from his place. Some one in the neighborhood reported the loss of 50 hedge plants recently.

H. BAYERSDORFER & CO.

Manufacturers and Importers

1129 Arch St. PHILADELPHIA, PA.

A Full Line of Bridal Accessories for the June Wedding Decorations

STOCK UP NOW

THE LEADING FLORISTS' SUPPLY HOUSE OF AMERICA

10,000 BEAUTY ROSE PLANTS

2 1-4 inch \$60.00 per 1000

Special price in quantity

THE LEO NIESSEN CO.

Wholesale Florists

1201-05 Race Street,

PHILADELPHIA, PA.

TRY
Horticulture's Advertisers
FIRST
Before Looking Elsewhere
Tell Them You Did So And
They'll Reciprocate

EDWARD REID WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.

CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

H. M. ROBINSON & CO. BOSTON'S FOREMOST Wholesale and Commission Florists

82 Otis Street, 2 Winthrop Square

BOSTON, MASS.

Telephone 2618-2617-2616, Main.

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$2.00. 50,000...\$8.75. Sample free.
For sale by dealers.

E. G. HILL CO.

Wholesale Florists
RICHMOND, IND.

Please mention Horticulture when writing.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS

Consignments Solicited

Hardy Fancy Fern Our Specialty

264 RANDOLPH ST., DETROIT, MICH.

The House for Quality and Service

ZECH & MANN

We are Wholesale Florists Doing
a Strictly Wholesale Business

30 East Randolph Street, CHICAGO



POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut Flower Market

Daily consignments from leading growers Full line of Florists' Supplies Write for quotations before ordering elsewhere

262B DEVONSHIRE ST., BOSTON, MASS.
Telephone, Main 6267-6268

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON June 14		ST. LOUIS June 11		PHILA. May 28	
Roses						
Am. Beauty, Special	20.00	to 25.00	30.00	to 40.00	20.00	to 25.00
" " Fancy and Extra	8.00	to 15.00	20.00	to 25.00	12.00	to 15.00
" " No. 1 and culls	3.00	to 6.00	5.00	to 10.00	3.00	to 10.00
Russell, Euler, Mock	1.00	to 6.00	8.00	to 15.00	3.00	to 20.00
Hadley	1.00	to 10.00	5.00	to 15.00	3.00	to 10.00
Arenberg, Hoosier Beauty	.50	to 4.00	.....	.....	3.00	to 10.00
Ward	.50	to 4.00	2.00	to 4.00	3.00	to 6.00
Killarney, Radiance, Taft	.50	to 4.00	1.00	to 3.00	3.00	to 10.00
Ophelia, Sunburst, Hillingdon	.50	to 5.00	2.00	to 8.00	3.00	to 10.00
Key	.50	to 4.00	.....	.....	3.00	to 10.00
Key	.50	to 1.50	1.00	to 2.00	2.00	to 6.00
Carnations	.50	to 1.50	1.00	to 2.00	2.00	to 6.00
Cattleyas	25.00	to 40.00	.....	.....	35.00	to 60.00
Dendrobium formosum	.....	.....	.....	.....	.....	.....
Lilies, Longiflorum	2.00	to 4.00	5.00	to 8.00	6.00	to 10.00
Lilies, Speciosum	.....	.....	.....	.....	.....	.....
Lily of the Valley	.50	to 5.00	6.00	to 8.00	8.00	to 10.00
Snape	1.00	to 3.00	4.00	to 6.00	1.00	to 6.00
Peonies	2.00	to 4.00	.....	.....	2.00	to 10.00
Gladia	1.00	to 4.00	.....	.....	2.00	to 3.00
Calendula	.50	to 1.00	1.00	to 2.00	.50	to 1.00
Sweet Peas	.25	to .50	.20	to .25	.....	.....
Marguerites	.50	to 1.50	.....	.....	.50	to 1.50
Gardenias	10.00	to 20.00	.....	.....	.....	.....
Adiantum	.50	to 1.00	.....	.....	.75	to 1.50
Smilax	15.00	to 25.00	12.00	to 15.00	55.00	to 30.00
Asparagus Plumosus, & Spreng. (100 Bchs.)	25.00	to 25.00	25.00	to 35.00	42.00	to 50.00

WILLIAM F. KASTING Co. Wholesale Florists

568-570 WASHINGTON STREET - BUFFALO, N. Y.

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER of

CUT FLOWERS

Flower Market Reports

The flower trade here is **BOSTON** not quite so demoralized this week as it was at the time of last report, but that is about all we can say in its favor. Commencement and graduation exercises in all directions are causing a little activity and will so continue for another week, but these events are not what they were for the florist before the "ruthless" bombardment of the flower trade by hysterical reformers and "patriots" was begun. This market is free thus far from any avalanche of peonies, and the accumulation now in sight consists mainly of carnations, lilies, stocks and other things that may be classed as regular goods. White carnations are almost unsalable; red ones are in some demand and the same is true of roses, all the red varieties having stiffened up in price today, June 14, American Beauty climbing back into the 25-cent notch. Many rose growers are already throwing out their old stock and getting ready for repairs and replanting. As a general thing the quality of all flowers at present time is very good.

The first week in June **CHICAGO** was dull by comparison with the closing days of May and sales were slow and stock accumulated till the latter part of the week, when the market resumed its poise and a fairly good week and business resulted. Prices had to be cut on ordinary stock and when a buyer in large quantities made an offer it was usually accepted, so the ice boxes were left in fairly good shape to begin the next week. Peonies are coming steadily, but not with the usual rush, the cold rain having held them back. There is a preponderance of dark pink just now, the light pink and white peonies being comparatively few. Outdoor lily of the valley has good sized bells and dark foliage and were its keeping qualities good it would be most acceptable. Fine American Beauties are offered, but the demand is not heavy. There are plenty of lilies, and callas, and the quality is good. Carnations are coming in, in large quantities and the prices cover quite a range, but on the whole are lower than the grower finds profitable. The rose supply is large and stock is fine. Ferns are scarce and there is much loss on those now coming from the south.

This market is glutted with stock of all kinds. With the exception of commencement business this week the demand is very quiet. Shipping business has fallen off greatly and buyers dictate the prices. Carnations and roses are very plentiful. Peony receipts have been exceptionally heavy and they have piled up in the market. Many growers are not cutting their peonies because of the poor market. Gladioli are plentiful and lilies are in a heavy supply but do not sell at any price. Excellent outdoor sweet peas may be had.



Rambler Rose Sprays

For June Weddings and Commencements a decoration of Rambler Sprays pink white or red, furnish one of the most decorative and effective results imaginable. We can supply them in long, medium or short sprays.

Per 100 sprays \$5.00 to \$20.00
(according to length)

First cuts come from our Washington store, then comes Baltimore, Philadelphia and New York, thus prolonging the season for those charming flowers.

PEONIES

In quantity, all colors.
100—\$3.00, \$1.00, \$5.00.
1,000—\$20.00, \$30.00, \$40.00.

S. S. PENNOCK-MEEHAN CO.
THE Wholesale Florists of
NEW YORK 117 W. 28th St.
BALTIMORE Franklin & St. Paul Sts.
PHILADELPHIA 1608-1620 Ludlow St.
WASHINGTON 1216 H St., N.W.

WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

	CINCINNATI June 14		CHICAGO June 14		BUFFALO June 4		PITTSBURG June 4	
Roses								
Am. Beauty, Special.....	30.00	to 40.00	30.00	to 40.00	20.00	to 25.00	25.00	to 30.00
" " Fancy and Extra.....	15.00	to 25.00	15.00	to 25.00	15.00	to 20.00	15.00	to 20.00
" " No. 1 and culls.....	6.00	to 10.00	4.00	to 10.00	3.00	to 8.00	.....	to 8.00
Russell, Euler, Mock.....	5.00	to 10.00	4.00	to 20.00	3.00	to 12.00	6.00	to 15.00
Hadley.....	4.00	to 10.00	.....	to 10.00	5.00	to 8.00	.....	to 10.00
Arenberg, Hoosier Beauty.....	4.00	to 10.00	4.00	to 12.00	4.00	to 10.00	.....	to 10.00
Ward.....	3.00	to 6.00	2.00	to 10.00	3.00	to 5.00	6.00	to 10.00
Killarney, Radiance, Taft.....	3.00	to 8.00	2.00	to 10.00	2.00	to 6.00	3.00	to 10.00
Ophelia, Sunburst, Hillingdon.....	3.00	to 10.00	3.00	to 10.00	3.00	to 8.00	6.00	to 15.00
Key.....	.....	to 10.00	.....	to 10.00	.....	to 10.00	.....	to 10.00
Carnations	2.00	to 3.00	1.00	to 4.00	2.00	to 3.00	2.00	to 4.00
Cattleyas.....	.....	to 75.00	50.00	to 75.00	40.00	to 50.00	.....	to 75.00
Dendrobium formosum.....	.....	to 10.00	.....	to 10.00	.....	to 10.00	.....	to 10.00
Lilies, Longiflorum	10.00	to 12.00	5.00	to 12.00	6.00	to 10.00	.....	to 10.00
Lilies, Speciosum.....	.....	to 10.00	.....	to 10.00	4.00	to 5.00	.....	to 10.00
Lily of the Valley.....	.....	to 6.00	4.00	to 6.00	4.00	to 7.00	4.00	to 6.00
Snape dragon	4.00	to 8.00	4.00	to 8.00	6.00	to 6.00	2.00	to 4.00
Peonies.....	.....	to 10.00	.....	to 10.00	.....	to 10.00	.....	to 10.00
Gladioli.....	.....	to 10.00	.....	to 10.00	.....	to 10.00	.....	to 10.00
Calendulas	2.00	to 3.00	.....	to 2.00	2.00	to 3.00	2.00	to 3.00
Sweet Peas.....	.35	to .50	.50	to 1.00	.50	to 1.00	.50	to 1.00
Marguerites.....	.....	to 1.00	.50	to 1.50	1.00	to 1.50	1.00	to 2.00
Gardenias.....	.....	to 15.00	.....	to 20.00	.....	to 15.00	.....	to 15.00
Adiantum.....	.....	to 1.00	.....	to 1.00	.50	to 1.00	.75	to 1.25
Smilax	15.00	to 20.00	15.00	to 20.00	15.00	to 20.00	20.00	to 25.00
Asparagus Plu. & Spren. (100 Bhs.)	25.00	to 35.00	25.00	to 50.00	25.00	to 35.00	30.00	to 50.00

NEW YORK Conditions in the wholesale cut flower district for the past few days have been almost beyond belief. The worst feature is the arrival of truck load after truck load of peonies, big open express trucks piled to

the limit of height with cases and crates. It has to be seen to be adequately realized. These are all from Pennsylvania points, the New York and New Jersey crop not coming in yet. It is positively out of the ques-

(Continued on page 7)



IN CHICAGO

For the Retailer or for the Grower
KENNICOTT BROS. CO.
Wholesale Cut Flowers

H. B. KENNICOTT, President

J. E. POWELL, Sec'y and Gen'l Mgr

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ASPARAGUS AND SMILAX and all other Seasonable Flowers.

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NEW YORK QUOTATIONS PER 100. To Dealers Only**ROSES AND CARNATIONS**

	Last Half of Week ending June 9 1917		First Half of Week beginning June 11 1917	
American Beauty, Special	15.00	to 20.00	15.00	to 20.00
" " Fancy and Extra	10.00	to 15.00	10.00	to 15.00
" " No. 1 and culls	3.00	to 6.00	3.00	to 6.00
Russell, Euler, Mock	1.00	to 6.00	1.00	to 6.00
Hadley	2.00	to 20.00	2.00	to 20.00
Arenberg, Hoosier Beauty .....	.50	to 6.00	.50	to 4.00
Ward .....	.50	to 4.00	.50	to 4.00
Killarney, Radiance, Taft .....	.50	to 4.00	.50	to 4.00
Ophelia, Sunburst, Hillingdon50	to 4.00	.50	to 4.00
Key50	to 6.00	.50	to 4.00
Carnations50	to 1.50	.50	to 1.00

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Wholesale Commission Dealer in
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Satisfactory and Profitable.
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Consignments Solicited

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WHOLESALE FLORISTS
55-57 West 26th Street
Telephones, 13—8510 Madison Square
MAURICE L. GLASS, Treasurer
Consignments Solicited

Flower Market Reports

(Continued from page 771)

tion to dispose of more than a fraction of the receipts and when the best grade of Festiva Maxima realizes with difficulty anything over \$10.00 a thousand, the general return to the grower after paying expressage on such bulky material can perhaps be imagined. Other seasonable flowers are also in heavy supply, with but little demand. Tulips are about gone, and so are the Spanish iris, but there is plenty to take their place. Carnations—the less said the better. Push carts laden with peonies, roses and carnations are here, there and everywhere.

Considering the late season, business has so far kept up remarkably well. Were it not for a number of large events recently, the overcrowded market now seemingly at hand would have been on some time before. The peonies which should have been here for Memorial Day are now crowding the wholesale and retail trade and, indeed, with the exception of green products, flowers of all kinds are coming in all too plentifully.

Trade is keeping up fairly well considering the bad weather which we are experiencing at this time. Graduations have helped to make it somewhat livelier than it otherwise would have been. The planting season has been greatly hampered this year and Thursday's severe hailstorm did much damage to the younger plants, and seeds which were just planted. The market is fairly well supplied with all kinds of stock which includes roses of about all kinds and includes some good American Beauties. Excellent outdoor lily of the valley sells well. Carnations are very plentiful but move satisfactorily. Peonies shipped from the south are abundant. Snapdragon moves well. Large gladioli are of very fine quality and sell fast. A good quantity of outdoor stock is used extensively, white and purple lilacs receiving a fair demand. H. B. E.

Warm weather, with ST. LOUIS summer dullness, is with us. Carnations and roses begin to show effects of warm weather. Lilies are plentiful. Ferns are very scarce. Good Russells, Hadleys and Ophelia roses find ready sale. This week and next closing exercises at the schools will finish up the social season.

The market last week was overcrowded with flowers of all kinds. Wholesalers were forced to sell their stocks at decidedly low prices, and even then, large quantities could not be moved and had to be thrown away. A great deal of sweet william, which came in too late for Memorial Day could not be sold, and there was also very little demand for peonies. Lily of the valley

PATRICK WELCH, WHOLESALE FLORIST

262 DEVONSHIRE STREET, BOSTON, MASS.

American Beauties, Orchids, Valley, Carnations. All the novelties in the Cut Flower Market furnished on short notice. Prices quoted on application. No retail orders accepted. Flowers shipped out of Boston on early trains.

STORE OPEN FOR BUSINESS AT 6 A. M. TELEPHONE MAIN 2698.

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Can handle shipments of growers' product satisfactorily. Would like to hear from Growers of Snapdragons and Sweet Peas, etc., for the New York trade.

130 West 28th St., NEW YORK

Tel Farragut 3066

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending June 9 1917	First Half of Week beginning June 11 1917
Cattleyas.....	15.00 to 40.00	15.00 to 40.00
Dendrobium formosum.....	..... to 40.00	..... to 40.00
Lilies, Longiflorum.....	2.00 to 3.00	2.00 to 3.00
Lilies, Speciosum.....	2.00 to 3.00	2.00 to 3.00
Lily of the Valley.....	.50 to 3.00	1.00 to 4.00
Snapdragon.....	1.00 to 3.00	1.00 to 3.00
Spanish Iris.....	1.00 to 3.00	1.00 to 3.00
Peonies.....	1.00 to 2.00	1.00 to 2.00
Gladioli.....	.50 to 4.00	.50 to 2.00
Calendulas.....	.50 to 1.00	.50 to 1.00
Sweet Peas.....	.15 to .50	.15 to .50
Marguerites.....	1.00 to 2.00	1.00 to 2.00
Gardenias.....	10.00 to 20.00	10.00 to 20.00
Adiantum.....	.50 to 1.00	.50 to 1.00
Smilax.....	15.00 to 20.00	15.00 to 20.00
Asparagus Plumosus, & Spreng (100 bunches).....	15.00 to 25.00	15.00 to 25.00

J. K. ALLEN, WHOLESALE COMMISSION FLORIST

Always Ready to Receive Consignments and Can Market Them Satisfactorily. Wanted Specially, Early Peonies, Gladioli, etc., for Spring Trade.

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FRANK MILLANG

HOME GROWN ASPARAGUS

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IN ANY QUANTITY

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NATURAL PREPARED GREEN LYCOPodium FIRE-PROOF AND GUARANTEED NOT TO BECOME BRITTLE. PUT UP IN CONVENIENT SIZE CARTON, 11 LBS. NET, \$2.20. THIS IS A GOOD SUBSTITUTE FOR SEA MOSS.

PITTSBURGH CUT FLOWER CO.

116-118 Seventh St., PITTSBURGH, PA.

coming in from Northern points is good but finds only an occasional sale. Callas and lilies are not holding their own. Roses are hanging fire. American Beauties sold well at times. Orchids now coming in are better than they have been and are selling fairly well.

NEW CORPORATION.

Pittsburgh, Pa.—Arcadia Floral Co., capital stock, \$5,000. Treasurer, P. A. Wolfert.

Harry Powell has been appointed pine tree inspector for North Adams, Mass., by the State Board of Agriculture.

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APHIS PUNK

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S. S. Skidelsky & Co., Philadelphia, Pa.
Plumosus Nanus.
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ASPARAGUS

Asparagus Plumosus Seedlings, \$1.00 per 100, \$6.00 per 1000. Ready May 1st. COL-
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Henderson's Invincible, a fine Aster for cutting and trade pullers for your customers' own planting; separate colors, strong, transplanted plants, prompt shipment; \$5.00 per 1000. Cash. BRILL
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BASKETS

H. Bayersdorfer & Co., Philadelphia, Pa.
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BEGONIAS

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Chattelaïne Begonias, 2½-inch pots, in full bloom now, \$3.00 per 100, \$25.00 per 1000. HENRY F. MICHELL CO., 518 Market St., Philadelphia, Pa.

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A. Leuthy & Co., Roslindale, Mass.
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E. C. Rogers, Roslindale, Mass.

Geraniums, Nutt, Ricard, Vland, Buchner, 4-in., \$8.00 per 100. Nutt and Rose Scented, 3½-in., \$6.00 per 100. Germany Ivy, Canna Robusta, 3½-in., \$6.00 per 100. Dracena Indivisa, 3-in., \$7.00 per 100. Geranium Salleri, Coleus Trailing Queen, Begonia Vernon, Blue Ageratum, White Daisy, 3-in., \$5.00 per 100. White Daisy, 4-in., \$15.00 per 100. Cash. F. SOKOL, College Street, Worcester, Mass.

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BEGONIA LORRAINE.
2¼-in. pots, \$14.00 per 100; \$120.00 per 1000.
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Rutherford, N. J.

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Bulbs of all descriptions. Write for prices.
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Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 1000 for 35c.; 3000 for \$1.00 post-paid. I. L. PILLSBURY, Galesburg, Ill.

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CYCLAMENS.

Best strain separate colors or mixed.
3-in. pots, \$10.00 per 100; \$90.00 per 1000.
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Rutherford, N. J.

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FERNS—Continued

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Hill's Evergreens.
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Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.
For page see List of Advertisers.

Bobbink & Atkins, Rutherford, N. J.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Cottage Gardens Nurseries, Inc., Eureka, Calif.
For page see List of Advertisers.

In writing to Advertisers kindly mention Horticulture

NUT GROWING

The Nut-Grower, Waycross, Ga.
For page see List of Advertisers.

ORCHID PLANTS

Sanders, St. Albans, England, also
Walter Gott, McAlpine Hotel, N. Y. City.
Orchid Hybrids.

Beechwood Heights Nurseries,
Bound Brook, N. J.
Importers and Growers of Orchids.
For page see List of Advertisers.

Jullus Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

HASSALL & CO., Orchid Growers and
Raisers, Southgate, London, England. Im-
mense stock of Cattleyas.

PAINTS AND PUTTY

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

PANSY SEED

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

PETUNIAS

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

PEONIES

Peonies. The world's greatest collection.
1200 sorts. Send for list. C. BETSCHER,
Canal Dover, O.

Complete manuals on the Peony, Iris and
Phlox. 25 cents each in stamps. C. S.
HARRISON, York, Nebraska.

PECKY CYPRESS BENCHES

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Boston, Mass.

PIPE AND FITTINGS.

Kroeschell Bros. Co., Chicago.
For page see List of Advertisers.

King Construction Company,
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

PLANT AND BULB IMPORTS

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

McHutchison & Co., New York City.
For page see List of Advertisers.

POT WASHER

Kelitch & Co., Cleveland, Ohio.
The "Presto" Pot Washer.
For page see List of Advertisers.

PRIMULAS

William Sim, Cliftondale, Mass.
Hybrid Yellow Polyanthus.

RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

RIBBONS AND CHIFFONS

S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.

ROSES

P. Ouwerkerk, Hoboken, N. J.
For page see List of Advertisers.

W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
For page see List of Advertisers.

ROSES—Continued

A. N. Pierson, Inc., Cromwell, Conn.
For page see List of Advertisers.

Bay State Nurseries, North Abington, Mass.
For page see List of Advertisers.

ROSES, CANNAS AND SHRUBS.
THE CONARD & JONES COMPANY,
WEST GROVE, PA.

SASH

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

SEASONABLE PLANT STOCK

R. Vincent, Jr. & Sons Co., White Marsh,
Md.
For page see List of Advertisers.

SEEDS

Carter's Tested Seeds.
Seeds with a Pedigree.
Boston, Mass., and London, England.
For page see List of Advertisers.

Joseph Breck & Sons, Boston, Mass.
For page see List of Advertisers.

J. Bolgiano & Son, Baltimore, Md.
For page see List of Advertisers.

A. T. Boddington Co., Inc., New York City.
For page see List of Advertisers.

Chas. Schwake & Co., New York City.
For page see List of Advertisers.

Michell's Seed House, Philadelphia, Pa.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia, Pa.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston, Mass.
Gold Medal Cyclamen Seed.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
For page see List of Advertisers.

Amt. C. Zvolanek, Lompoc, Cal.
Winter Flowering Sweet Pea Seed.
For page see List of Advertisers.

Kelway & Son, Langport, England.
Seeds, Selected Strains.
For page see List of Advertisers.

S. S. Skidelsky & Co., Philadelphia, Pa.
For page see List of Advertisers.

W. E. Marshall & Co., New York City.
Seeds, Plants and Bulbs.
For page see List of Advertisers.

August Rolker & Sons, New York City.
For page see List of Advertisers.

Burnett Bros., 98 Chambers St., New York.
For page see List of Advertisers.

Leonard Seed Co., Chicago, Ill.
Seeds and Seed Service.
For page see List of Advertisers.

Roman J. Irwin, New York City.
For page see List of Advertisers.

S. D. Woodruff & Sons, New York City and
Orange, Conn.
Garden Seeds.
For page see List of Advertisers.

Thomas J. Grey Co., Boston, Mass.
Seeds, Bulbs, Implements.
For page see List of Advertisers.

Fottler, Flisk, Rawson Co., Boston, Mass.
Seeds for the Florist

SHELF BRACKETS

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. LAGER
& HURRELL, Summit, N. J.

SWEET PEA SEED

Ant. C. Zvolanek, Lompoc, Calif.
Winter Orchid Flowering Peas.
For page see List of Advertisers.

TREE SURGERY

Davey Tree Expert Co., Kent, Ohio.

VASES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
For page see List of Advertisers.

Celery plants, Golden Self Blanching
(French strain), also the grand new Easy
Blanching variety, which is easy to grow;
fine plants, ready for the field, \$2.00 per
1000, or \$3.75 for 5000. Cash. BRILL
CELERY GARDENS, Kalamazoo, Mich.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
For page see List of Advertisers.

The John A. Evans Co., Richmond, Ind.
For page see List of Advertisers.

VERMICIDES

Aphine Mfg. Co., Madison, N. J.
For page see List of Advertisers.

VINCAS

Vinca variegata from 4 in. pots, price
\$10.00 to \$15.00 per hundred.
WM. CAPSTICK, Auburndale, Mass.

Vinca variegata, 3½ and 4 inch pots, \$10,
\$12 and \$15 per 100, 5 inch pots, \$18, \$20
and \$25 per 100. Cash with order, please.
CHRISTOFFERSON BROS., North Bever-
ly, Mass.

WHEAT SHEAVES

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
For page see List of Advertisers.

WIREWORK

Reed & Keller, New York City.
For page see List of Advertisers.

WILLIAM E. HEILSCHER'S WIRE
WORKS, 234 Randolph St., Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
For page see List of Advertisers.

Baltimore

The S. S. Pennock-Meehan Co., Franklin
and St. Paul Sts.
For page see List of Advertisers.

WHOLESALE FLORISTS

Boston

Welch Bros. Co., 226 Devonshire St.
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Patrick Welch, 262 Devonshire St.
For page see List of Advertisers.

H. M. Robinson & Co., 32 Otis St. and 2
Winthrop Sq.
For page see List of Advertisers.

Bound Brook, N. J.

The Beechwood Heights Nurseries, Thos.
Young, Jr., Prop.
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Brooklyn

Wm. H. Kuebler, 28 Willoughby St.
For page see List of Advertisers.

Buffalo, N. Y.

William F. Kasting Co., 568-570 Washing-
ton St.
For page see List of Advertisers.

For List of Advertisers See Page 755

Est. 1765

Inc. 1904

Pot Makers for a
Century and a Half**HEWS****STRONG
RED
POROUS****POTS**World's Largest
ManufacturersStandard, Azalea, Bulb, Orchid, Fern, Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.Write for Catalogue
and Discounts**A. H. HEWS & CO., Inc., Cambridge, Mass.**Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.

WHOLESALE FLORISTS

Chicago

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.J. A. Budlong, 184 North Wabash Ave.
For page see List of Advertisers.Zech & Mann, 30 East Randolph St.
For page see List of Advertisers.Kennicott Bros. Co., 163-65 N. Wabash Ave.
For page see List of Advertisers.

Detroit

Michigan Cut Flower Exchange, 264-266
Randolph St.
For page see List of Advertisers.

New York

H. E. Froment, 148 W. 28th St.
For page see List of Advertisers.W. F. Sheridan, 133 W. 28th St.
For page see List of Advertisers.P. J. Smith, 131 West 28th St.
For page see List of Advertisers.Hentz & Nash, 55 and 57 W. 26th St.
For page see List of Advertisers.Charles Millang, 55 and 57 West 26th St.
For page see List of Advertisers.W. P. Ford, 107 W. 28th St.
For page see List of Advertisers.J. K. Allen, 118 West 28th St.
For page see List of Advertisers.S. S. Pennock-Meehan Co., 117 W. 28th St.
For page see List of Advertisers.Traendly & Schenck, 436 6th Ave., between
26th and 27th Sts.
For page see List of Advertisers.Paul Meconi, 57 West 28th St.
For page see List of Advertisers.Riedel & Meyer, Inc., 49 West 28th St.
For page see List of Advertisers.George C. Siebrecht, 109 W. 28th St.
For page see List of Advertisers.John Young & Co., 53 West 28th St.
For page see List of Advertisers.M. C. Ford, 121 West 28th St.
For page see List of Advertisers.United Cut Flower Co., Inc., 111 W. 28th St.
For page see List of Advertisers.Guthman & Raynor, Inc., 101 W. 28th St.
For page see List of Advertisers.Gunther Bros., 111 West 28th St.
For page see List of Advertisers.Henry M. Robinson Co., 55-57 W. 28th St.
For page see List of Advertisers.Herman Weiss, 130 West 28th St.
For page see List of Advertisers.J. J. Coan, 115 West 28th St.
For page see List of Advertisers.Joseph S. Fenrich, 51 West 28th St.
For page see List of Advertisers.Frank Millang, 55-57 West 26th St.
York City.
For page see List of Advertisers.

WHOLESALE FLORISTS

Philadelphia

Leo. Niessen Co., 12th and Race Sts.
For page see List of Advertisers.Edward Reid, 1619-21 Ranstead St.
For page see List of Advertisers.The S. S. Pennock-Meehan Co., 1608-20
Ludlow St.
For page see List of Advertisers.

Richmond, Ind.

E. G. Hill Co.
For page see List of Advertisers.

Rochester, N. Y.

George B. Hart, 24 Stone St.
For page see List of Advertisers.

Washington

The S. S. Pennock-Meehan Co., 1216 H St.,
N. W.
For page see List of Advertisers.

New Offers In This Issue

10,000 AMERICAN BEAUTY ROSE
PLANTS.Leo Niessen Co., Philadelphia, Pa.
For page see List of Advertisers.

BEGONIAS AND CYCLAMEN.

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.FLORIST ESTABLISHMENT TO
RENT.Mrs. George Anderson, Philadelphia, Pa.
For page see List of Advertisers.

GERANIUMS.

Longmeadow Greenhouses, Wellesley, Mass.
For page see List of Advertisers.

GREENHOUSE CONSTRUCTION.

Wm. H. Lutton & Co., Jersey City, N. J.
For page see List of Advertisers.

RAMBLER ROSE SPRAYS.

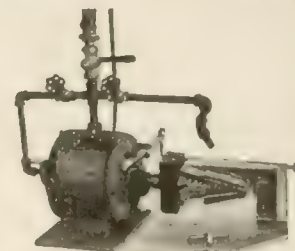
S. S. Pennock-Meehan Co., Philadelphia, Pa.
For page see List of Advertisers.SUNDAY CLOSING ANNOUNCE-
MENT.Wholesale Florists, Jobbers and Allied
Trades, New York City.
For page see List of Advertisers.

WANTS, FOR SALE, Etc.

On Account of Sickness

The well known florist establishment of
George Anderson at 51st and Woodland
Ave., Philadelphia.

FOR RENT

to a responsible party on reasonable
terms as a going concern. Eighteen
greenhouses, covering approximately
seventy five thousand square feet, in
good condition, steam heated, twelve of
which are planted in roses. The place
is especially desirable for a plant busi-
ness on account of its nearness to the
centre of the city. Apply to Mrs. George
Anderson at the above address. Can be
seen at any time.CLEAN POTS
MAKE POSSIBLE
PERFECT PLANTS

The "Presto" Pot Washer

Electric, Water and Belt
Power

Write Today State Kind of Power

KEETCH & COMPANY

5th Floor, 1240 Huron Rd.
CLEVELAND, O.

Successors to Fowler, Mfg. & Supply Co.

STANDARD FLOWER
POTSIf your greenhouses are within 500
miles of the Capitol, write us; we can
save you money.W. H. ERNEST
29th & M Sts., Washington, D. C.

GET OUR CATALOGUE

On Ventilating Apparatus and Green-
house Fittings
ADVANCE CO., RICHMOND, IND.

THE NUT-GROWER

The unique monthly publica-
tion which furnishes reliable
and interesting up-to-date in-
formation regarding the value
of pecans and other edible nuts
and how to grow them for profit.

Subscription, \$1.00 per year

Sample Copy Free

THE NUT-GROWER

No. 2 Francis St.

WAYCROSS, GA.

**GREENHOUSES BUILDING OR CON-
TEMPLAED.**

Willow Grove, Pa.—Edward Chap-
man, Moreland road, one house.

Sellersville, Pa.—Frank Christian,
one house.

Union, N. H.—J. F. Varney, one
house.

Scottsbluff, Neb.—William Howard,
house 30 x 150.

NEWS NOTES.

Cincinnati—P. J. Olinger is having
the heating system at his greenhouses
overhauled.

Washington, D. C.—The United
States Civil Service Commission an-
nounces that an open competitive ex-
amination, of the non-assembled type
will be held for the position of botan-
ist in the Bureau of Science, Manila,
P. I. Applications must be filed by
July 15.

Bangor, Me., June 6—Police forced
the door of a florist's shop on Central
street last night just in time to pre-
vent Kaiser, a cat belonging to a
marketman, from killing a second
dove of peace after he had badly
mangled one. In observance of regis-
tration day the florist arranged an ex-
hibit of red, white and blue blooms,
and three white doves put on the fin-
ishing touch. Kaiser sneaked in by a
back stairway and pounced upon the
doves, musing the display.

—*Boston Globe.*

PATENT GRANTED.

1,228,935. Weeder. Jaakko Lilpakka,
New Castle, Pa.

**JACOBS BUILT
TO LAST
GREENHOUSES**

The strong, simple construction of Jacobs Greenhouses enables us to keep costs down to a minimum, without affecting durability or utility. In commercial greenhouse building, especially, where costs must be carefully considered, we honestly believe we can give you a "bigger dollar's worth" than the average. Backed by half a century's experience. Write for estimates—today!

S. JACOBS & SONS

1359-1385 Flushing Ave.

Brooklyn, N. Y.

**FOLEY MATERIALS**

ARE THE BEST FOR

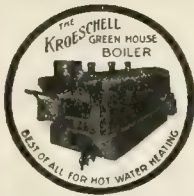
**Iron Frame, Pipe Frame or Wood Frame
GREENHOUSES**

Estimate and Sketch Submitted Promptly

THE FOLEY GREENHOUSE MFG. CO.

3275 West 31st Street,

CHICAGO, ILL.



If you need a boiler in a hurry telephone or telegraph at our expense

KROESCHELL BOILERS

SEND FOR CATALOG

Kroeschell Bros. Co., 466 W. Erie St., Chicago

**KING CONSTRUCTION COMPANY, North Tonawanda, N. Y.****GREENHOUSES**

We Claim Maximum Strength and Minimum Shadow. Investigate

BOSTON OFFICE: 113 State St. NEW YORK OFFICE: 1476 Broadway PHILADELPHIA OFFICE: Harrison Bldg., 15th and Market Sts.

DREER'S

Florist Specialties,
"RIVERTON" Moulded
Garden and Greenhouse
Hose

Furnished in lengths up
to 100 ft. without seam or
joint.

The HOSE for the FLORIST

1/2-inch,	per ft.,	16 c.
3/4-inch,	"	15 c.
1-inch,	"	14 1/2 c.
1 1/2-inch,	"	14 c.
2-inch,	"	13 c.

Couplings furnished

HENRY A. DREER
714-716 Chestnut St.,
PHILADELPHIA, PA.



When writing to advertisers kindly
mention **HORTICULTURE**.

PATENTS

Trademarks
and Copyrights

Difficult and rejected cases spec-
ially solicited. No misleading in-
ducements made to secure business.
Over 30 years' active practice. Ex-
perienced, personal, conscientious
service. Write for terms.
Address,

SIGGERS & SIGGERS

PATENT LAWYERS

Box 9, National Union Building
Washington, D. C.

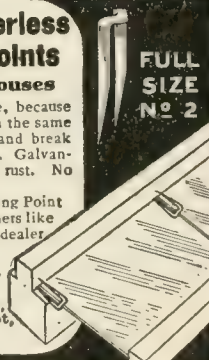
**Dreer's Peerless
Glazing Points
For Greenhouses**

Drive easy and true, because
both bevels are on the same
side. Can't twist and break
the glass in driving. Galvan-
ized and will not rust. No
rights or lefts
The Peerless Glazing Point
is patented. No others like
it. Order from your dealer
or direct from us.

1000, 75c. postpaid.
Samples free.

HENRY A. DREER,
714 Chestnut Street,
Philadelphia.

FULL
SIZE
No. 2





The Entrance

SUCCESS IS ASSURED

to the professional florist who tempts the public with a display like this. The clear view of the plants in the LUTTON show greenhouse creates desire to possess the flowers displayed, and the pleasing entrance is as good as a personal invitation to the passerby to enter.

Last month we illustrated a winter view of this LUTTON Greenhouse, recently erected for Louis Rodman & Sons, of Brooklyn, N. Y. The photographs shown here were taken this spring; the remarkable brightness in every part of this LUTTON Greenhouse and the clean-cut, graceful and compact design of the framework are apparent in all the views.

A good show house will pay you. Why not write to-day for an estimate on your requirements?



View Through the Leaves

WM. H. LUTTON CO.

Main Office and Factory, 279 Kearney Ave., Jersey City, N. J.

Show Rooms,

3rd Floor,
Grand Central Terminal,
N. Y. City.

Western Office,

710 Sykes Block,
Minneapolis, Minn.

Rodman Shop
and Greenhouse

Modern Greenhouses

Conservatories

Sun Parlors

Cold Frames

GULF CYPRESS

GREENHOUSE MATERIALS

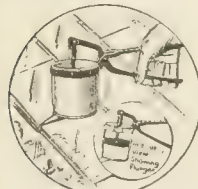
HOTBED SASH
GLASS



Pecky Cypress Bench Lumber

THE ONLY PERFECT LIQUID PUTTY MACHINE

Will Last a Lifetime, \$1.25 each



"SEAL TIGHT
LIQUID PUTTY"
will not harden,
crack or peel off.
\$1.25 per gallon in
10 gallon lots.
\$1.40 per single
gallon.

Non-Kink Woven Hose

In any length (one piece)
with couplings, 14c. per foot.
Remnants 15 to 30 feet,
coupled, 10c. per linear foot.
Unequalled at the price.



Hose Valve - 70c.



All brass except the hand
wheel. Has a removable
leather disk which is easily
replaced to keep water-tight.
Stuffing box prevents leaks
at stem.

MetropolitanMaterialCo
PATENTED GREENHOUSE

1297-1325 Flushing Ave., Brooklyn, N. Y.

When writing to advertisers kindly
mention HORTICULTURE.

GLASS

AND
HOT-BED SASHES

Our prices can be had by mail, and
it will pay you to get them. We carry
the largest stock of Specially Selected
Glass in Greater New York and can
supply any quantity from a box to a
car load on a one day notice, and at
Rock Bottom Prices.

PARSHELSKY BROS. Inc.

215-217 Havemeyer St., Brooklyn, N. Y.

MASTICA

For Greenhouse
Glazing

USE IT NOW

F. O. PIERCE CO.

12 W. BROADWAY
NEW YORK



Mastica is elastic and tenacious, admits of
expansion and contraction. Putty becomes
hard and brittle. Broken glass more easily
removed without breaking of other glass
as occurs with hard putty. Lasts longer
than putty. Easy to apply.

The Florists Hall Association rate of in-
surance from Nov. 1st, 1916 to Nov. 1st,
1917 will be twenty cents per hundred
square feet of single thick glass and eight
cents per hundred square feet of double
thick glass. For particulars address
JOHN G. ESTER, Sec., Saddle River, N. J.

METROPOLITAN EFFICIENCY SPEEDS PRODUCTION



The express object of this organi-
zation is to serve its clients with
an absolute maximum of such
efficiency.

We aim to do this in a manner
that is as thoroughly satisfac-
tory with regard to both quality
and economy as consistency and
human endeavor will permit.

**PUT YOUR GREENHOUSE
PROBLEMS UP TO US**

We go anywhere in the U. S.
to submit plans and prices

MetropolitanMaterialCo
PATENTED GREENHOUSE

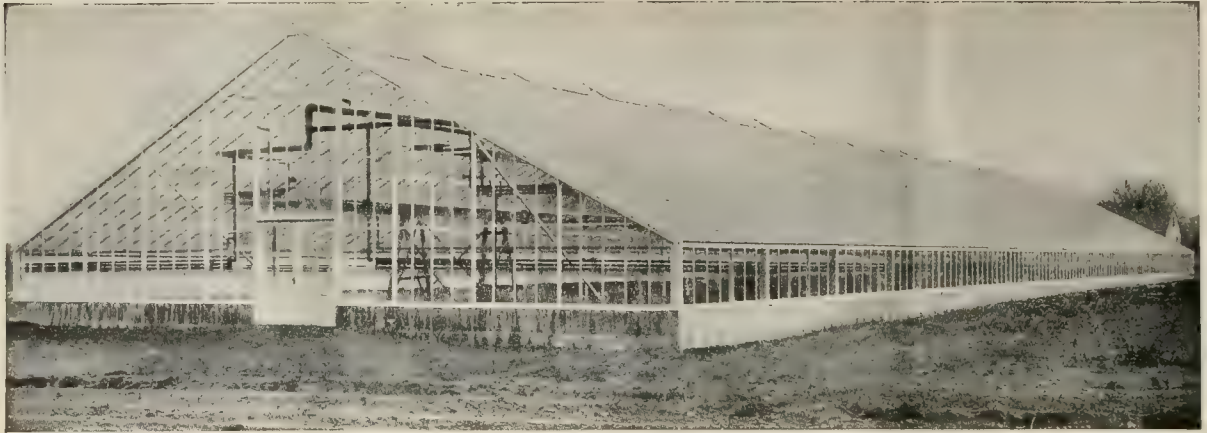
1297-1325 Flushing Ave.,
Brooklyn, N. Y.

Evans 20th Century Arm

Most up-to-date arm on the market. Proof
that it is better than any other is that
others try to imitate it. Write for our
1916 catalog list.

JOHN A. EVANS CO.
Richmond, Ind.





FORTHUBER

Why These Brothers Built An Iron Frame House

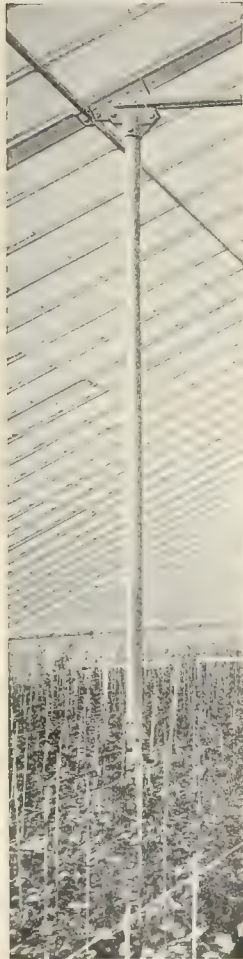
A couple or so years ago when the stable and other buildings of the Forthuber Bros. of Irvington, N. J., burned down, they determined not to have the thing repeated. The new buildings are fireproof, being constructed throughout of tile and concrete. When it came to building a greenhouse; the idea of building thoroughly and lastingly had a grip on them. For a year or more, they planned and figured; and thought and

talked; about the best house to build; and the best firm to build it.

Last Spring they gave us their order for one of our Reconstructed Construction houses, 58 feet wide by 207 feet long.

If you want to get a straight from the shoulder opinion of our construction, and our way of doing business; they might be good ones for you to talk with.

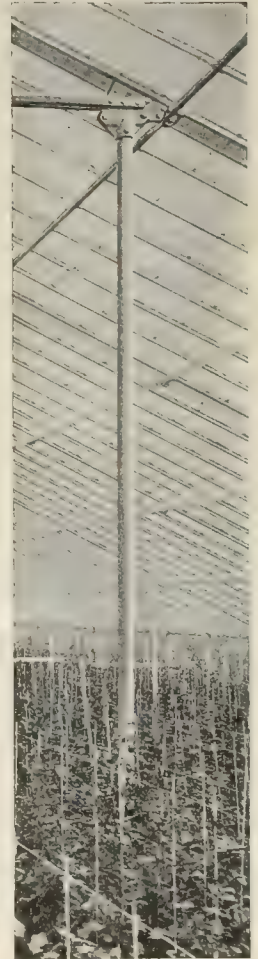
You know we go anywhere for business. Or to talk business.



Note secure way column, rafter and truss tie are joined.



The side sash are equipped with our sliding shaft apparatus. Works easy. Closes tight.



Column is bolted, not clamped to cap fitting.

Hitchings and Company

NEW YORK
1170 Broadway

BOSTON
49 Federal Street

PHILADELPHIA
40 So. 15th Street

General Offices and Factory, Elizabeth, N. J.

Vol. XXV
No. 24
JUNE 16
1917

HORTICULTURE



Boston Outdoor June Exhibition

View in Rhododendron Tent of Walter Hunnewell, Wellesley, Mass.

Published Every Saturday at 147 Summer Street, Boston, Mass.
Subscription \$1.00

LILLIAN MOORE ROSE

The Thousand Dollar Trophy Winner



Indian yellow with deeper yellow center, long pointed buds on stiff, erect stems. Plants from 4-in. pots for immediate planting \$2.50 each.

CHARLES H. TOTTY, MADISON, N. J.

ENGLISH IVIES

3 in., \$8.00 per 100; 3½ in., \$10.00 per 100; 4 in., \$12.00 per 100

SMALL FERNS FOR DISHES

Plenty of Holly and Aspidium 2¼ in., \$4.00 per 100; \$35.00 per 1000. Adiantum rhodophyllum and cuneatum, 3½ in., very strong plants, \$8.00 per 100.

A. M. DAVENPORT, Watertown, Mass.

IF in need of RELIABLE NURSERY STOCK

that is well grown, well dug and well packed

Send to the **BAY STATE NURSERIES**

Wholesale and Retail

NORTH ABINGTON, MASS.

GARNATIONS

F. DORNER & SONS CO.
LA FAYETTE, IND.

ROBERT CRAIG CO.

ROSES, PALMS,

and Novelties in Decorative Plants.

MARKET and 49th STREETS, PHILADELPHIA, PA.

A. N. Pierson, Inc.

CROMWELL, CONN.

Bedding Plants and Roses

WHITMANII IMPROVED—\$5 per 100, \$40 per 1000.
WHITMANII COMPACTA—\$5 per 100, \$40 per 1000.
ROOSEVELTS—\$5 per 100, \$40 per 1000.
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NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toil, we ought to blame the culture, not the soil."—*Pope*.

Antirrhinums for Next Winter

Do not wait too late before starting. It is from well established plants that you will get the bloom in mid-winter. It is time now to put in cuttings for stock for benching in August or September. Cuttings can be taken from now up to the end of July. These would begin to flower in December. Pot them into 2½ inch pots and shift along so as to not allow them to become pot bound. It is very important not to let green fly get a foothold; otherwise they will get stunted. Fumigate moderate and often. Place them in a cold frame. It is better not to pinch until the stem has reached a medium height as you then will get better breaks.

Cyclamen

Where you are using the houses practically all the year round but would like to give them a thorough cleaning and drying out, which, by the way is an excellent thing to do, make use of frames for the cyclamen. Cyclamen should be placed as soon as possible in cold frames where they will grow much better than in the greenhouse. Plunge the pots in fine coal ashes and shade during the summer with lath or cloth which will keep the plants cooler than when they are covered with glass that has been whitened. On hot days syringe overhead two or three times. Stock in 3-inch pots should be shifted before they are potbound. A good mixture to use is well-decayed cow manure and well rotted fibrous loam, three parts, leaf mold one part. Add enough of sand and fine charcoal to give porosity and sweetness.

Mignonette

Successive sowing from now until August will result in a supply of flowering plants in pots from early in the fall until the beginning of the new year. Seeds for the principal crops are sown in July and in some places as late as the last week of August. They do not like to be disturbed by shifting so sow a pinch of seeds at once in the pots in which the plants are to be flowered and sold which can be 5 or 6 inch pots, filling them but three-fourths up with soil and adding the remainder after the seedlings are somewhat strong and have been thinned down to one or more of the sturdiest. One-half manure, if it is old enough to be handled, added to the soil to which a fair proportion of sand is added, is what we use. Press it down firmly and let it become rather dry at every watering. Keep in a cool house.

Miltonias

Give a slight fumigation once a week and a dose of weak liquid cow manure. Keep a sharp look out for thrips and pay strict attention generally to cleanliness for at this season thrips do increase at an alarming rate. They should be grown in an airy house. Do not allow a direct draught to strike them but keep as free a circulation of pure air as possible. When cultivated under proper condition these orchids make a beautiful

show especially *Miltonia vexillaria*, which is one of the most valuable for summer flowering. As the orchids go out of flower they should be repotted in osmunda fern fiber and sphagnum moss. After potting only enough water should be supplied to keep the compost moist. They should be supplied with more shade for at least five weeks, after which they should have plenty of sunlight through lath or bamboo shading.

Seasonable Repairs

There is absolutely nothing to look forward to in two months from now but work, more of it than we can attend to perhaps, but don't overlook having clean houses. There isn't a greenhouse that should not have at least a thorough cleaning out once a year. Don't put off cleaning for any reason; the present is the time to do it. Give a general inspection as to painting, puttying and other repairing. Repairing ventilators may be necessary. Do it now and—by the way—be sure that they are kept well oiled so that they run easily. Even at the hottest time of the year, the florist always finds plenty to do. It is hot work those torrid days but cloths can be laid over the roof to make it more tolerable. There is nothing worse than leaky and draughty houses when the fall and winter months come.

Adiantum Farleyense

I would like to forward to Mr. Farrell the following question regarding the growing of *Adiantum Farleyense* and which is the best compost for it. Does it require sand mixed with compost or good heavy loam itself, and what is the best temperature for same during the winter months?

Yours respectfully,

N. J.

G. R.

Would say the best compost for *Adiantum Farleyense* is fibrous loam four parts, well decayed cow manure two parts, leaf mold and sharp sand one part each. This adiantum being a stove species will require a temperature of from 65 to 70 degrees for a night heat and from 75 to 80 degrees during bright days; on dull days about 72 degrees will be all right. In order to keep them growing in good shape you will have to dampen down the house about three times a day so as to produce plenty of moisture in the air. Success depends to a great extent on the temperature, atmospheric moisture, and compost. Get these right and you will not have much trouble in growing *Adiantum Farleyense*.

Reminders

In all spraying keep well under the leaves. It is there that insects usually congregate.

Clip the genistas into shape a little with the shears before putting them out for the summer.

Water *Oncidium varicosum Rogersi* very freely now to strengthen the bulbs and forming flower spikes.

Nothing is so refreshing to plants during hot summer weather as frequent and free damping of floors and stages to create a moist atmosphere.

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A timely warning The president of the American Seed Trade Association in his address at the annual convention of that organization sounds a timely note of warning, when he refers to

the probable scarcity and higher cost of seeds next season. In the case of peas and beans, leading growers have recently found it necessary to ask their customers to permit a slight increase in the prices at which they had accepted contracts earlier in the season. This, they explained was necessary because of the unusual difficulty they had experienced in placing these crops with farmers this year. Farm labor is scarce and the farmer can more easily raise wheat or other cereal which now pays well and requires no hoeing—sowing and harvesting only. There is therefore no immediate prospect of lower prices for these crops. It is indeed a calamity that in the past we have depended so much upon Europe, particularly France and Germany for so many kinds of farm and garden seeds. The supplies of France are seriously reduced and the enemy now devotes his energy to producing food—not seeds. The outlook is anything but encouraging and high prices, we predict, will prevail for several years.

Decoration Day in Canada

It is urged by correspondents of our Canadian contemporary that May 24 be established as Decoration Day for the Dominion, to be observed on the

same order as our own Decoration or Memorial Day which is celebrated on May 30. Just for what reason the earlier date is preferred by our northern neighbors does not appear. There can be no valid reason why the observance should not be on identical dates on both sides of the boundary line so far as we can imagine. We in this section of the country not infrequently find May 30 none too late for the successful carrying out of the sentiments of the occasion and Canada's spring season opens, on the average, considerably later than does ours. Perhaps one motive may be to throw the business of providing the required flowers for the occasion entirely into the hands of the florists, a plan which might promise well for the commercial interests but which would, on the other hand, put something of a damper on the spontaneity of the public in adopting the beautiful custom which with an abundance of outdoor spring blossoms would be encouraged and in the long run develop to the more permanent advantage of the florist as has been the case in this country.

Retrenchment approved

As time passes and opinions and comments come to us from various sources on the wisdom of the action of the New York Florists' Club in deciding to abandon all its plans for wholesale entertainment of the visitors at the August convention the universal sentiment of the S. A. F. members and others who have given expression to their views seems to be one of unqualified approval. No fear is expressed by anyone that in consequence of this change of program the convention attendance will be any smaller than it would have been had the elaborate entertainment as originally proposed been fully arranged for. This, we believe, will prove to be the case. It is quite probable, too, that as much money will be spent in New York in an individual capacity by the visitors and by the local people as had been contemplated under organized auspices and, as a rule, with much better results and more general satisfaction. HORTICULTURE would have little sympathy with any movement at the present time which would tend to the stagnation of business and interrupt that brisk circulation of money which is an essential to general prosperity but there is such a thing as sane and wholesome economy, the exercise of which in the present instance, shows good judgment.

The Weather and the Sweet Pea

Editor of HORTICULTURE:

Dear Sir:—I note with interest the editorial on the Sweet Pea situation appearing in last week's issue, and must say it is a wise provision to include the phrase, "should weather conditions continue favorable." An editorial appearing in a July issue of last year exploited a speaker's opinion as expressed at a banquet in Bar Harbor that weather conditions had nothing to do with the successful cultivation of the Sweet Pea, and his remarks would give the impression that the skillful grower could overcome any condition that might prevail. Since Saturday, the 19th inst., Newport has experienced one of the most unfavorable spells of weather for the Sweet Pea that could possibly be. The whole week has been one of rain and fog and not one sunny day has intervened to save the situation. As I write it is still raining hard with no sign of clearing up. May I ask the skillful man what he would do under such conditions?

William Gray.

THE PHILADELPHIA PEONY SHOW

A competitive display of roses was staged on the second day of the joint exhibition. The judges were Dr. Robert Huey and Robert Kift, who gave awards as follows:

Three flowers of Los Angeles—John W. Pepper, Jenkintown.

Hybrid Tea, three varieties, six blooms of each—1st, W. S. Ellis, Bryn Mawr; 2nd, John W. Pepper.

Hybrid Tea, twelve blooms—1st, Mrs. Charles T. Jones, Pitman, N. J.; 2nd John W. Pepper.

Hybrid Perpetual, three varieties—1st, John W. Pepper; 2nd, W. S. Ellis.

Hybrid Tea, one to six flowers each variety—1st, W. S. Ellis, Bryn Mawr; 2nd, Mrs. John Gribbel, Wyncote; 3rd, C. B. Newbold.

Special prize of \$10, one flower each of twelve Hybrid Tea—John W. Pepper.

There were no exhibitors for the \$100 cash prize offered by the American Peony Society, the weather conditions having been ruinous to all outdoor rose bloom. The flowers in the one entry, sent from a western grower, fell to pieces when the boxes were opened.

PEONY AWARDS

The judges were A. H. Fewkes, Newton Highlands, Mass., A. P. Saunders, Clinton, N. Y., and W. H. Thurlow, West Newbury, Mass. They made the following awards:

Collection of not more than 100 named varieties, 1st, James Boyd, Haverford, Pa.; 2d, Bertrand H. Farr, Reading; 3d, John C. Wister, Germantown.

Vase or basket of peonies, not less than 100 blooms, arranged for effect, 1st, James Fox, Wyncote; 2d, Miss Gwen Baugh, Media.

25 varieties, double, 3 blooms of each, 1st, Bertrand H. Farr; 2d, James Fox; 3d, John C. Wister, Germantown.

Collection of single varieties, 1 bloom of each, 1st, Bertrand H. Farr; 2d, A. P. Saunders.

Collection of Japanese varieties, one bloom of each, 1st, Bertrand H. Farr; 2d, John C. Wister.

25 light pink or pink and cream, 1st, Mrs. Charles T. Jones, Pitman, N. J.; 2d, Bertrand H. Farr.

25 red or crimson, 1st, Bertrand H. Farr; 2d, C. B. Newbold Jenkintown; 3d, Arthur H. Scott, Oak Lane.

6 blooms, 1 variety, 1st, Miss Clara Anderson, Van Wert, O.; 2d, M. Edmund Maule, Moorestown, N. J.

Specimen, double, 1st, James Boyd, 2d, E. Irwin Scott, Swarthmore.

Collection of varieties introduced since 1900, 1st, James Boyd; 2nd, Bertrand H. Farr.

6 blooms grown more than 300 miles from Philadelphia, 1st, Miss Clara Anderson; 2d, Mrs. L. R. Bonnewits, Van Wert, O.

Artistic arrangement of not more than 25 peonies in vase, bowl or basket, 1st, Mrs. Arthur H. Scott; 2d, Mrs. F. H. Bachman.

Collection of not more than 100 named varieties, 1st, James Boyd; 2d, E. K. Schultz, Jenkintown; 3d, Arthur H. Scott.

Collection of not more than 50 double, 1st, Mrs. Arthur H. Bailey, Harrisburg.

Collection of single and Japanese, 1st, Elmer K. Schultz; 2d, Arthur H. Scott; 3d, A. P. Saunders.

Collection of white varieties, 1st, Mrs. Arthur H. Bailey; 2d, Arthur H. Scott; 3d, Elmer K. Schultz.

Collection of red or crimson, 1st, Mrs. Arthur H. Bailey, 2d, Arthur H. Scott; 3d, Elmer K. Schultz.

3 blooms white, 1st, Mrs. R. S. Holt, W. Summit, N. J.; 2d, Mrs. Owen Moon, Trenton, N. J.; 3d, Mrs. John M. Webster, Van Wert, O.

3 light pink or pink and cream, 1st, Thomas T. Taylor, Ogontz; 2d, Mrs. Owen Moon; 3d, Mrs. F. H. Jarrett, Bethayres.

3 dark pink, 1st, Herbert K. Taylor, Ogontz; 3d, Fisher L. Boyd, Haverford.

3 red or crimson, 1st, William T. Taylor, Ogontz; 3d, Fisher L. Boyd.

Outdoor cut flowers, collection of six species, 1st, W. S. Ellis, Bryn Mawr; 2d, John A. Brown, Devon.

COMMERCIAL AZALEAS.



The accompanying illustration shows a house of florists' azaleas (35,000 plants) growing at Eureka, California. American florists have heretofore relied solely on Belgium-grown azaleas. Eighty per cent of the florists of America will stoutly declare the azalea cannot be grown commercially in America. C. W. Ward, of the Cottage Gardens Company does not agree and in proof shows this evidence. He tells us that buildings to handle a million azaleas annually are

Hardy perennials, display of 12 species, 1st, A. P. Saunders.

BOSTON OUTDOOR JUNE SHOW.

The closing days of the Outdoor Exhibition saw the rhododendrons opened at last and in a blaze of radiant color, as had been hoped would be the case during the earlier days of the show. The weather has been a very serious handicap to the success of the enterprise. Sunday, the 17th, which was expected to make a record for attendance did so but in a negative way, for the winds blew and rain fell in torrents all afternoon.

The rock garden exhibit of R. & J. Farquhar & Co., has greatly improved in the time since it was planted and as the myriads of alpine plants become inured to their situation the effect is exceedingly pretty. The half-moon Japanese bridge spanning the pool in this plantation is rather too ponderous and too formal in design for its surroundings but for this defect Mr. Farquhar disclaims responsibility.

A fine collection of shrub and tree flowers from the Arnold Arboretum enlivened the show for the final days, replacing exhibits which had lost their beauty and been removed.

The exhibits of iris blooms sent in by Miss Grace Sturtevant, J. K. Alexander and others last week were a popular addition to the exhibits judging by the notice taken of them by

being constructed at Eureka and claims that not only can the azalea be grown commercially along a large area bordering the Pacific Coast in Northern California, but it can be grown of better quality and at no greater cost than it is grown in foreign countries. He declares that everything entering into the cost of growing azaleas, save one item of labor alone, costs much less in Eureka than in Belgium, and the increased labor cost is neutralized by the more rapid and vigorous growth of the plant.

visitors. All were in separate vases and labeled.

In the effort to secure sensational publicity an article describing the "blue rose" and Mr. Roland's alleged scientific research and patience in evolving this wonder got into the daily papers much to the mortification of those who want to see truthfulness observed always concerning such things. It goes without saying, Mr. Roland was not responsible for the yarn.

THE PHILADELPHIA WAY.

Editor, HORTICULTURE:

It may be interesting to state that at the last meeting of the Germantown, Phila., Horticultural Society, Mrs. H. S. Prentiss Nichols, a member who takes a great interest in its objects, gave the society three \$100 Liberty Bonds, the interest to be used annually for special prizes, which was highly appreciated.

And the Chestnut Hill, Phila., Horticultural Society this week voted to invest \$200 of its funds in Liberty Bonds, and to co-operate with the ladies in the Floral Fair and Bazaar for the benefit of the Red Cross to be held early in November instead of holding our regular exhibition. We feel that this is the time to show the benefit to the community of our Horticultural Society and will continue our meetings and be ready to help in any way we can for the good of our town and country.

J. S. H.

NATIONAL FLOWER SHOW

There was a meeting of the National Flower Show Committee at the Jefferson Hotel, St. Louis, June 8-9, to complete arrangements for the 1918 National Flower Show to be held in St. Louis, April 6-15.

There were present: George Asmus, Chicago, Ill., chairman; John Young, New York, secretary; J. J. Hess, Omaha, Nebr., treasurer; Patrick Welch, Boston, Mass.; Adolph Farenwald, Roslyn, Pa.; Robert C. Kerr, Houston, Texas, president of the S. A. F., and A. F. J. Baur, Indianapolis, Ind., secretary of the American Carnation Society.

While the Coliseum building, where it was originally intended to house the show, was still available, it was, in the opinion of the committee, entirely too small for the purposes of the exhibition, and for the meetings and the Convention of the S. A. F., which will be held at the same time. It was finally decided to lease Moolah Temple, 3821 Lindell Boulevard, and also the adjoining vacant lot, 155 x 300 feet upon which a temporary building will be erected for the flower show. This temporary building will be connected, by a passageway, to the second or lower floor of the Temple, where the trade exhibits will be located.

At no previous National Flower Show were conditions more adequate for exhibits in the trade section. The floor space dimensions are about 200 x 100 feet, and the quarters at present are used as the dining hall for the members of the Temple after their sessions. The main floor, about 200 x 75 feet, is expected to be used for exhibits and displays of retail florists. The business meetings of the Society will be held in one of the side rooms on this floor.

The lot upon which the temporary building which is to house the National Flower Show will be erected is located at McPherson and Van de Venter Aves., one of the best residential sections of the city. As the exhibits in the temporary building will be placed on the bare ground there will be no danger of damaging any hardwood floors, consequently there will be unsurpassed water facilities.

The decision of the Society to hold the Convention and National Flower Show at the same time, in the Spring, is approved by the S. A. F. members in all sections of the country, and even at this early date, before the floor plans have been issued, exhibitors are reserving space in the trade section, so the outlook is very encouraging as to the financial success of the exhibition. From now until the date of the show, there will be erected on the site of the temporary building a huge sign board, to be used for publicity purposes.

The Schedule Committee will meet at an early date, to revise the schedule already issued, which was compiled to meet the somewhat limited space afforded by the floor area of the Coliseum. The new arrangements ensure ample room for the exhibits of rock gardens, rose gardens, and other displays, if it is decided to have such exhibits.

The Committee also held a conference with Mr. George W. Simmons, head of the American Red Cross in St. Louis, and it may be that the Red Cross organization will co-operate in the entertainment plans, if such course does not conflict with their rules and regulations, on lines similar to those followed by the organization at the New York Show.

The Committee are grateful for the many courtesies extended during their session, by the local florists' interests, especially to Messrs. D. S. Geddis, F. H. Meinhardt, Wm. C. Smith and Frank Gorly, who were indefatigable in their efforts to assist the committee in their work.

Now that the question of the building for the exhibition has been decided upon, the work of the Show will be pushed with vigor. The Flower Show Committee will, of course, consult the St. Louis Florists' Club and local florist interests before going ahead with any of the arrangements, and the wishes of those bodies will be considered wherever possible. With every one working in a spirit of harmony, there is no question but what the Fifth National Flower Show will be as successful as any held in the past.

The following have placed their names on the Guarantors' List, and the total subscribed is a few hundred dollars less than the ten thousand required, so if you are interested we would ask that you send in your subscription promptly so that the list may be closed: Peter Henderson & Co., Louis Burk, Thomas Roland, W. R. Nicholson, A. S. Burns, Jr., Jackson & Perkins Co., William A. Burnham, Storrs & Harrison Co., Alfred T. Bunyard, Wm. F. Kasting Co., John Young, Albert Pochelon, C. E. Critchell, Florists' Publishing Company, H. P. Knoble, A. N. Pierson, Inc., Samuel Murray, A. L. Miller, Joseph Heacock Co., Patrick Welch, W. N. Rudd, Kroeschell Bros. Co., The Friedley Co., B. Hammond Tracy, J. J. Hess, Chas. H. Totty, Bertermann Bros. Co., F. A. Danker, Benjamin Hammond, Lord & Burnham Co., H. G. Berning, Otto G. Koenig, Henry Eicholz, S. A. Anderson, Fred'k Lautenschlager, C. T. Guenther, Alban Harvey & Sons, De La Mare Ptg. & Pub. Co., The McCallum Co., George L. Stillman, Harry K. Rohrer, C. M. Hamilton, Wm. C. Gloeckner, Harry I. Randall, James Duthie, James W. Begbie, W. Atlee Burpee & Co., John A. Evans, U. C. Wanner, Joseph H. Hill, William O. Jahn, Philip Breitmeyer, George Asmus, Schiller (Chicago), Some Florists (Twin Cities) Minnesota, The

Wendland & Keimel Co., G. Van Borchove & Bro., Jacob Schulz & Co., C. W. Ward, A. C. Zvolanek, George Morrison, John Lewis Childs, W. A. Rowe, Marcellus A. Patten, The Conard & Jones Co., J. W. Dudley & Sons Co., F. R. Pierson, W. J. Cowee, J. F. Ammann, Emil Buettner, W. J. & M. S. Vesey, Max Schling, Eric James, Joseph Straudt, Hans Plath, Fred C. Weber, Wm. F. Ekas, Wm. L. Rock Flower Co., Robert Craig Co., Henry A. Dreer, Inc., S. S. Pennock-Meehan Co., The Leo Niessen Co., George Burton, Pittsburgh Cut Flower Co., C. A. Kuehn, John Burton, Fred H. Meinhardt, A. Farenwald, Poehlmann Bros. Co., Pelicano, Rossi & Co., C. F. Beyer, F. J. Fillmore, S. B. Boyd, F. A. Windler Co., Stuppy Floral Co., Foley Mfg. Co., Robert Simpson, Hitchens & Co., J. C. Moninger Co., R. Witterstaetter, D. MacRorie, John S. Carter, Nicotine Mfg. Co.

JOHN YOUNG, Secy.

June 15, 1917.

FLOWER SHOW AT CHESTER, PA.

The second annual flower show, under the direction of the Horticultural Society of the Civic League, New Century Club, opened in the Sixth Regiment Armory on June 8 and was largely attended. Mrs. Casper Howarth was awarded the silver medal, donated by the H. F. Michell Co. of Philadelphia, for receiving the greatest number of points. Second honors went to E. M. Rosenbluth, of Wallingford, who was given a bronze medal. Mrs. Garnett Pendleton was awarded a rose vase for the largest peony and Miss Janet McAllister, of Media, was given a silver rose vase for the largest rose. The show, which was continued two days, won the highest praise for the committee in charge by the many visitors. The exhibits were attractively placed and the great interest displayed by amateur gardeners was a source of considerable appreciation to the promoters whose object is to create more enthusiasm in flower cultivation. Among the special commercial exhibits were those of the Rose Shop, Cross Company, Hart's Flower Shop, Bickmore Farm, H. E. Bloom, Michell Co. of Philadelphia, Reliable Furniture Co., and the Morrow Palmer Novelty Co., Phila.

ROSE AND STRAWBERRY SHOW POSTPONED.

On account of the backwardness of the season it is necessary to change the scheduled dates of the Rose, Peony and Strawberry exhibition of the Massachusetts Horticultural Society from June 23 and 24 to Saturday and Sunday, June 30 and July 1. This exhibition is one of the most interesting and brilliant of the year and is free to the public. It will be open Saturday from 12 to 6 and on Sunday from 1 to 6 o'clock.

WM. P. RICH, Secy.

Clubs and Societies

AMERICAN ASSOCIATION OF NURSERYMEN.

Program of the meeting at Philadelphia, Pa., June 27-29, 1917.

Wednesday, June 27th.

9.30 a. m.—Call to order by the President. Address of Welcome: City of Philadelphia, Hon. James Edward Cattell; Chamber of Commerce, President Ernest T. Trigg. Response, by member of the Association. President's Annual Address, John Watson, Newark, N. Y. Report of Secretary, Curtis Nye Smith, Boston, Mass. Report of Treasurer, Peter Youngers, Geneva Nebr. Address Hon. Champ Clark Washington, D. C.

Reports of Committees: Hail Insurance, Frank A. Weber, Chairman, Nursery, Mo. Nomenclature, J. Horace McFarland, Chairman, Harrisburg, Penn. Standardization, Harlan P. Kelsey, Chairman, Salem, Mass. Landscape, W. H. Wyman, Chairman, North Abington, Mass. Publicity, F. L. Atkins, Chairman, Rutherford, N. J. Telegraphic Code, R. C. Chase, Chairman, Chase, Alabama. Transportation, Chas. M. Sizemore, Chairman, Waxahachie, Texas. Appointment of Committees. Adjournment.

EXECUTIVE SESSION.

2.30 p. m.—Reports of Counsel, Curtis Nye Smith, Boston, Mass. Reports of Committees: Legislation, Wm. Pitkin, Chm. Rochester, N. Y. Arbitration W. C. Reed, Chm., Vincennes, Ind. Distribution M. R. Cashman Chm. Owatonna, Minn. Tariff, Irving Rouse, Chm., Rochester, N. Y. Two Years Under the New Constitution, Henry B. Chase, Chase, Ala. Discussion, led by Lloyd C. Stark, Louisiana, Mo. Expanding Association Funds to Guarantee Largest Possible Returns, J. W. Hill, Des Moines, Ia. Discussion, led by Irving Rouse, Rochester, N. Y. The Paramount Question: How to Make the Nursery Business Feed and Clothe Us and Pay Our Debts, John Dayton, Painesville, Ohio. Discussion, led by R. C. Chase, Chase, Ala. Standardization, Cooperation, Organization, J. R. Mayhew, Waxahachie, Texas.

8.00 p. m.—A dinner will be arranged for members and their wives where all can dine together.

Thursday, June 28th.

9.30 to 11.00 a. m.—Nurserymen's Publicity, J. Horace McFarland, Harrisburg, Pa.

11.00 to 12.30—Sales Promotion, Advertising, Irvine Paschall, Philadelphia, Pa. Robert Pyle, West Grove, Pa.

EXECUTIVE SESSION.

2.30 p. m.—Prices Wholesale and Retail: In the Face of Unprecedented Advance in Labor, Supplies, Etc., Are We Not Forced to Raise Prices. How? F. H. Stannard, Ottawa, Kans; W. W. Hoopes, West Chester Pa. The Relations of Wholesaler and Retailer: Would the Interests of Either or Both be Better Served Through Separate Organizations? M. R. Cashman Owatonna, Minn.; Open Discussion. Prohibition of Importation of Nursery

Stock, E. S. Welch, Shenandoah, Ia. Discussion, led by Jas. McHutchison, New York, N. Y. Modern Business Efficiency and Practice, Wm. P. Stark Neosho, Mo. The Future in Ornamentals, John S. Kerr, Sherman, Texas.

EVENING.

7.30—A meeting of State Vice-Presidents will be held. Members are urged to consult together and name their choice for Vice-Presidents.

8.00—Meeting of American Nurserymen's Protective Association, Thomas B. Meehan, Sec'y.

8.30—Meeting of American Retail Nurserymen's Protective Association, Guy A. Bryant, Sec'y.

Friday, June 29th.

9.30 a. m.—Address, Hon. David F. Houston, Secretary of Agriculture, Washington, D. C. When Are Evergreens (If Ever) Dormant? J. F. Baker, Fort Worth, Texas. Discussion, Maintenance of Soil Fertility, Milton Moss, Huntsville, Ala.

2.30 p. m.—Selection of place for next meeting. Election of officers, Unfinished Business. Adjournment.

Meetings Next Week

Monday, June 25.

Florists' and Gardeners' Club of Rhode Island, Swartz Hall, Providence, R. I.

Gardeners' and Florists' Club of Baltimore, Florist Exchange Hall, Baltimore, Md.

Tuesday, June 26.

Newport Horticultural Society, Newport, R. I.

Tarrytown Horticultural Society, Tarrytown, N. Y.

Wednesday, June 27.

Oyster Bay Horticultural Society, Oyster Bay, N. Y.

American Association of Nurserymen, Philadelphia, Pa.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The last regular meeting until September was held in Horticultural Hall on Tuesday evening, June 19, and as has been customary for several years it was Ladies' Night, with a collation and dance following a brief business session.

Two hundred and fifty persons were present. Seven new members were elected. After the reading of the minutes and various committee reports, it was voted to hold the annual picnic during the week of July 25th, the actual date to be announced later. It was also voted to keep all club members joining the colors in good standing until the close of the war.

A communication was read from Sam. J. Goddard, who had purchased five \$100 Liberty Bonds from the Framingham Bank in the club's name. It was voted to donate \$50 to the Red Cross. A letter of cheer was ordered sent to Alexander Mitchell, who was recently hurt in an auto accident. There was a very fine display of oriental poppies from Julius Heurlein.

After the singing of America and The Star Spangled Banner by the entire assemblage, the meeting adjourned to the hall adjoining where a delightful repast of strawberries, cake and ice cream was served. Dancing followed until twelve o'clock.

SOCIETY OF AMERICAN FLORISTS. The Convention Garden.

Some very active work is now in progress at the New York Botanical Garden, Bronx Park, covering the layout of the Convention Garden.

The backward season has been greatly in favor of the plantings, and at present it looks as though planting operations may continue for two or three weeks more.

The public, too, is taking extraordinary interest in the Convention Garden, as is usual with all the work of the Botanical Society and the work is being done under acute observation. Judging from the interest commonly expressed in the society's garden work it is expected that the Sunday crowd of visitors alone will run to the 75,000 mark. These visitors are not altogether flatdwellers, as one may observe when looking over the license plates on the automobile parkings of a Sunday.

The rate for planting space is very low, only ten cents per square foot, consequently anyone who has a specialty in the horticultural lines to exploit will lose a grand opportunity for publicity if advantage is not taken of this garden. George V. Nash, head gardener at the Botanical Garden, is giving the Convention Garden personal and constant supervision, a fact which speaks well for its success.

Of course, the plantings are not confined solely to novelties. Many retail florists would do well to think of the publicity they could get for small cost by making artistic plantings. The opportunity is here, will it avail?

Up to date the following have secured space in the garden: W. A. Manda, John Scheepers Co., Inc., Bobbink & Atkins, A. N. Pierson, Inc., Conard & Jones Co., Henry A. Dreer, Inc., John Lewis Childs, Raymond W. Swett, Arthur T. Boddington, Inc., Arthur Cowee, B. Hammond Tracy, Wm. Tricker, Thomas Meehan's Sons, A. L. Miller, R. Vincent, Jr., & Sons Co., and Vaughan's Seed Store.

JOHN YOUNG, Secy.

June 15, 1917.

AMERICAN ROSE SOCIETY.

The Executive Committee of the American Rose Society will hold a meeting in Philadelphia, Pa., during the Nurserymen's Convention. The meeting will be held on June 27th, at the City Club, 313 S. Broad St., at 1.00 o'clock. Anyone interested in the Rose Society as Rose Growers will be welcomed at the meeting, for the American Rose Society is a most excellent advertising agency for growers of roses and growers of rose bushes.

BENJAMIN HAMMOND, Secy.

Beacon, N. Y.

The Buffalo Florists' Club met on Tuesday evening, June 5 and listened to expert talks on rose and carnation culture by C. T. Guenther of Hamburg and on orchids by Sidney Wells of Buffalo.

SEED TRADE

AMERICAN SEED TRADE ASSOCIATION

Officers—President, Kirby B. White, Detroit, Mich.; First Vice-President, F. W. Boigiano, Washington, D. C.; Second Vice-President, L. L. Olds, Madison, Wis.; Secretary-Treasurer, C. E. Kendel, Cleveland, O.—Convention at Detroit, June 19, 1917.

AMERICAN SEED TRADE ASSOCIATION.

Address of President Kirby B. White at the Annual Convention, Detroit, Mich., June 19, 1917.

The thirty-fifth annual convention of the American Seed Trade Association comes at the close of one of the most eventful years in the history of the seed business. It comes also at the beginning of a year that may be even more fateful for us as seedsmen and citizens. It is therefore with a feeling of solemnity and unusual responsibility that I address you.

It is natural that as we reconvene our thoughts should first turn to the vacant places in our ranks. Mr. W. C. Langbridge, Mr. Walter P. Stokes, Mr. John A. Salzer and Mr. H. K. White are missed by their many friends. The appropriate committee will prepare resolutions formally voicing the feeling of the Association regarding our loss.

Legislation.

The material affairs of the Association have on the whole prospered. We have suffered comparatively little from the attacks of legislators. An unusually large crop of unusually stupid bills (the exact number is 118) has received the attention of our state correspondents and under the able direction of the attorney and the legislative committee they have as a rule been satisfactorily met. If any laxness has appeared it has not been at headquarters. The trend of the year has been toward centralizing more than ever before the responsibility for directing the Association's legislative defense. The task has grown to such proportions that it takes up too much time for any seedsmen to administer its details. The Association ought never again to impose upon anyone the volume of work it gave to Mr. Scarlett and Mr. Boyles. Therefore, upon our attorney and his assistants should be placed increasingly each year this great burden.

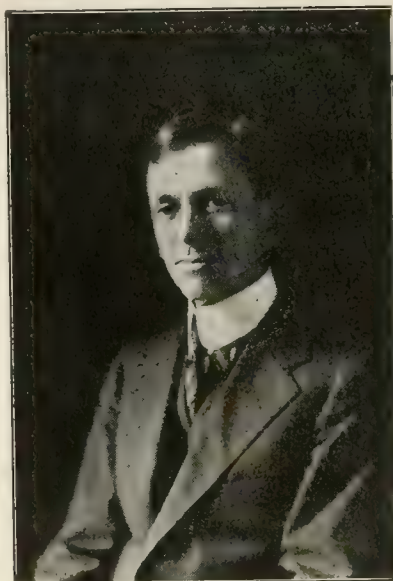
In this connection I desire to say that my opportunity as an official to observe the work of the attorney's office has impressed upon me the enlargement of the duties he has been called upon to assume. From a small beginning our needs have grown to require not merely the occasional attention of a lawyer in general practice but the direction of a specialist and trained assistants, all of whom give their time to the needs of seedsmen and nurserymen. The function performed by our attorney is most important and should continue to expand. Every year's experience adds to his value and to the volume of the work

it is found desirable to give him. I recommend that Curtis Nye Smith be retained in this position.

As time has developed the complexities of seed control it is gratifying to see how nearly those that administer and those who work under seed laws have approached a common ideal and common opinions as to what constitutes legitimate seed legislation. I hope and believe that before this convention ends the convention of the Official Seed Analysts, sitting in Detroit this week, will have aligned that association with us in vigorous support of the Uniform State Bill.

Voluntary Labeling.

The action of the Secretary of Agriculture in requesting seedsmen to mark seeds of field and forage crops as to purity and viability has met with almost universal compliance. It will be observed that this practice of voluntary marking is in effect the same as the European system of voluntary control. There is no criminal liability



KIRBY B. WHITE.

President American Seed Trade Association.

but there is every incentive for the vendor to have the label represent both accuracy in analysis and a high grade of seeds. It is possible that voluntary control which has been the sole system in Europe will prove equally satisfactory here.

Government Charges.

I desire especially to commend the work of the Committee on Government Charges. It is ably discharging the duty you imposed upon it. Our Association is pledged both to approval of publicity of the Department of Agriculture's findings and to vigilance in the defense of its members whether it be against unfairness from without or treachery from within. If the name of a member appears in a Government report as adulterating or misbranding seeds it is obvious that action must result. If the Government report is unfair, as such reports have sometimes been thought to be, the accused member is entitled to the united support of the trade in remedying the wrong. If on the other hand the report is true,

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RICARD, POITEVINE and S. A. NUTT GERANIUMS, 3½-in. pots, \$6.00 per 100. SWEET ALYSSUM, 2¼-in. pots, \$2.00 per 100. 200 KING HUMBERT CANNAS, 4-in. pots, \$6.00 per 100. COLEUS VERSCHAFFELTII and GOLD-EN BEDDER, 2¼-in. pots, \$3.00 per 100. 2,000 BOSTON FERNS, 2¼-in. pots, \$4.00 per 100. FUCHSIAS, 3½-in. pots, \$6.00 per 100.

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GERANIUMS

2000 S. A. NUTT and POITEVINE, fine stocky plants in bud and bloom, from 4 in. pots.

\$7.00 per 100

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Evergreen Specialists. Largest Growers in America.

BOX 415, DUNDEE, ILL.

Your ad. on Hydrangeas was very effective and has helped me to dispose of two houses of Hydrangeas for Memorial Day. We have had a great many letters telling us how fine the stock is.

Thanking you, I am

Yours very truly,

A. L. MILLER.

tion and each of its members cannot escape sharing in the disgrace any member may bring upon himself. I recommend that the Committee on Government Charges continue to receive your cordial support and cooperation.

A Bulletin Needed.

This interdependence of the entire trade is more and more being recognized not merely as a liability but in even greater degree as an asset. It is only necessary that we become conscious of our solidarity to make it profitable. The truth that the highest common good is also the individual's highest good, once grasped, is a mighty factor in individual success. Every aid to solidarity is therefore to be welcomed. I commend to the Association as one of the best means of fostering solidarity the confidential "Seedsmen's Bulletin." I recommend further that a committee be appointed to report on extending the field of the Bulletin to cover garden seed crop reporting and the announcement of the range of ruling wholesale prices of garden seeds. This course is not as revolutionary as it may sound. I submit that every seedsmen would find it easier to get a fair price for his goods if all seedsmen knew more about fundamental conditions of supply. In the face of great shortage, seeds are often sold at less than replacement value. Obviously this condition is harmful. It would be to the advantage of those who know of shortages to share this knowledge with those who lack facilities for getting news quickly. The office of the "Seedsmen's Bulletin" might be made a clearing house of crop reports. From this office news could be obtained by telegraph or mail at any time and all information would be accessible to any member. Confidential reports of this Association to Association members would carry greater weight than information received elsewhere because the reporting agency would be quite disinterested. Moreover, the Association would have access to all sources of knowledge. Each member might then if he chose make his vision of general supply world wide.

In recommending that the Bulletin

this Association demands that the facts be presented to it, through its committee, for such discipline as may be just and necessary. This Association in its columns the range of ruling wholesale prices I advise that names be omitted. High, low and average prices could be given for leading articles. For example: Early Jersey Wakefield cabbage might be quoted as low as \$1.00 per lb. and as high as \$4.00 with an average of \$2.50 per lb. The range of prices, particularly when the service has been in existence long enough to afford comparisons of one year with another would be a valuable guide and enable individuals to get their prices into line with those of the trade as a whole. I believe the reporting of crop and market conditions if properly conducted would be worth much more than it would cost.

Association Problems.

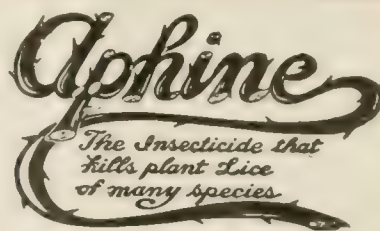
I recommend that a committee be appointed or elected to advise the Association with regard to the compensation of each of its employees. Many factors should be taken into account in this connection. If the present ratio between service and pay is not right there should be proper readjustment. If readjustment entails increasing the dues let us remember that the power of the Association does not lie in its being cheap.

The power of the Association, it would perhaps be trite to say, lies in its exemplification of the principles of justice, wisdom and even taste. The coming year will be a period of trial to us all. The war has forced upon us problems involving our financial existence, our private honor and our public duty. With regard to the obligation of contracts between members, I advise that the convention take no stand. The contracting parties are the only ones concerned except insofar as the good name of all is affected by the conduct of each. With regard to our public duty I recommend the adoption of the following resolution:

A Patriotic Message.

"To the President and the Secretary of Agriculture of the United States:

At the thirty-fifth annual convention of the American Seed Trade Association it was unanimously resolved that the President of the United States and the Secretary of Agriculture be tendered the support of this Association in all reasonable measures designed to prosecute the war with the utmost vigor. We count ourselves fortunate to be able to do our full share in supplying men and money, but our greatest service may well be in maintaining under extraordinary strain the machinery of producing and distributing the seeds without which agriculture must fail. Because we realize in some measure the magnitude of the task to which our country is committed we are the more earnest in pledging to it our entire resources. The seed trade is happy to be able to say that it can and will meet whatever disturbance in its organization may arise from the draft or voluntary enlistment of its younger men. We propose to do our best to fight and to save and to work for the one great event of complete victory."



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Save your plants and trees. Test the thing for greenhouse and outdoor use. Destroys Mealy Bug, Brown and White Scale, Thrips, Red Spider, Black and Green Fly, Mites, Ants, etc., without injury to plants and without odor. Used according to direction, our standard Insecticide will prevent ravages on your crops by insects.

Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pets. Excellent as a wash for dogs and other animals. Relieves mange. Dilute with water 30 to 50 parts.

1/2 Pint, 25c.; Pint, 40c.; Quart, 75c.; 1/2 Gallon, \$1.25; Gallon, \$2; 5 Gallon Can, \$9; 10 Gallon Can, \$17.50.
Directions on package.

LEMON OIL COMPANY

Dept. S. 420 W. Lexington St., Baltimore, Md.



Quarts, 55c. Gallons, \$1.65
Fives, \$6.50

Try with 24 parts water. Often effective weaker.

Ask your dealer or write

EASTERN CHEMICAL CO.
BOSTON, MASS.



NIKOTEEN

For Spraying

APHIS PUNK

For Fumigating

Ask Your Dealer For It

NICOTINE MFG. CO.
ST. LOUIS

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WIZARD

TRADE BRAND MARK

CONCENTRATED PULVERIZED MANURE

Pulverized or Shredded

Cattle Manure

Pulverized

Sheep Manure

The Florists' standard of uniform high quality for over ten years. Specify: **WIZARD BRAND** in your Supply House order, or write us direct for prices and freight rates.

THE PULVERIZED MANURE CO.
34 Union Stock Yard, Chicago

A FRIENDLY GREETING.

J. S. Brunton, editor of the Horticultural Trade Journal of the British Empire, finds a lull in the explosions from the Hun and writes a pleasant letter to HORTICULTURE as follows:

"The optimist is the man who sees in every obstacle An opportunity.

The pessimist is the man who sees in every opportunity—An obstacle."

If my memory is not at fault you had a little discussion some years ago on the definition of an Optimist. If I am wrong then my memory has played me a trick. When thinking of America I usually think of the optimist when "Horticulture" reaches me. I always look through it to read what he has written, but he does not give us enough of these racy paragraphs. When I came across the foregoing quotation (author unknown) I thought it might interest.

The prize we offered for the best definition of an optimist was finally won by Tommy Ruigi, a head waiter at the Bellevue-Stratford. Look up our back files and you will see what it was.

In the same light vein I send you this clipping from the Phila. Evening Ledger, which I happened to be glancing over half an hour ago:

We asked the young lady across the way how long she thought the war would last and she said she felt sure it would be all over this fall, but, of course, she always was an optometrist.

We are pleased to hear from you, Mr. Brunton, and are proud of the splendid sacrifices you and your allies have been putting forth these past three years. Reason must rule the world—not wild beast force.

I am still an optimist, but believe me, it's been a tough job for some time back!

GEORGE C. WATSON.

CATALOGUES RECEIVED.

T. C. Thurlow's Sons, West Newbury, Mass.—Peonies, Iris, Phlox and other Perennials. A standard list of good sorts.

Ant. C. Zvolanek, Lompoc, Cal.—Florists' List of Winter-Orchid-Flowering and other Sweet Pea Seed. Includes some promising novelties.

Heatherhome Seed and Nursery Co., New York—"Heatherhome" Strawberries; also list of Pot Grown Annuals and Hardy Perennials for Immediate Delivery. Both excellent lists.

Among Philadelphians who left Monday for the Seedsmen's Convention at Detroit were Howard M. Earl of Burpee's, Edward C. Dungan of Maule's, C. H. McKubbin of Dreer's, and Mr. Schermerhorn of Michell's.

LILIUM GIGANTEUM

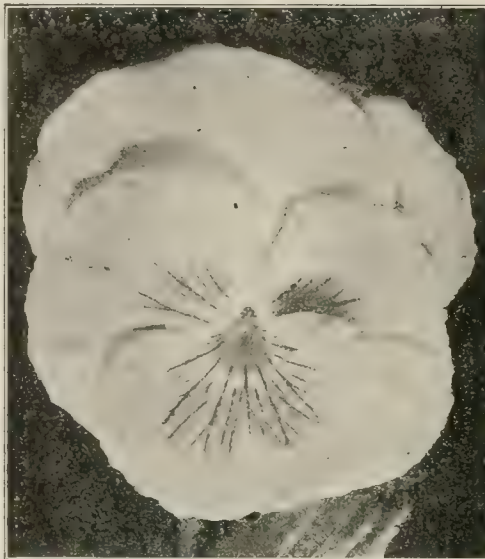
NEW CROP NOW READY.

	Per 100	Per 1000
7 to 9 in. (300 bulbs to case)...	\$5.50	\$50.00
8 to 9 in. (250 bulbs to case)...	7.00	65.00
8 to 10 in. (225 bulbs to case)...	9.00	80.00
9 to 10 in. (200 bulbs to case)...	10.00	95.00

A. HENDERSON & CO.

211 N. State St., Chicago.

MICHELL'S NEW CROP PANSY SEED



Michell's Giant Exhibition Mixed. A giant strain, which for size of bloom, heavy texture and varied colors and shades cannot be surpassed. Half trade pkt. 30c.; 50c. per trade pkt.; 1/4 oz. \$1.00; \$6.00 per oz.

Giant Trimardeau Mixed. Large flowering and choice colors. Trade pkt. 30c.; \$1.25 per oz.

Also Giant Prize and Regular sorts in separate colors.

CYCAS STEMS

\$2.50 per 25 lbs.; per 100 lbs. \$9.00; case lots (about 300 lbs.) at 8 1/2c. per lb.

Also all other Seasonable Seeds, Bulbs and Supplies. Send for Wholesale Catalog.

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BULBS
FERTILIZERS
SUNDRIES

FOR THE FLORISTS

A most complete stock of Seasonable Seeds.

FOR THE FLORISTS

For immediate use or future delivery. Ask for quotations.

FOR THE FLORISTS

Pulverized Sheep or Cattle Manure, Clay's, Thompson's, Dried Blood.

FOR THE FLORISTS

Insecticides, Spraying Implements, Small Tools, etc.

YOU ought to have our retail and Florists' Special List. If you have not, write for one.

FOTTLER, FISKE, RAWSON CO., THE SEED STORE BOSTON
Faneuil Hall Square

"Seeds with a Lineage" All Varieties
Thoroughly tested at our trial grounds, Raynes
Park, London, England. Send for Catalogue
CARTERS TESTED SEEDS, Inc., 166 Chamber of
Commerce Bldg., Boston, Mass.

NEW CORPORATIONS.

Glenshaw, Pa.—Bernard Schiffler, one house.

Toronto, Ont.—W. J. Lawrence Floral Co. Capital \$75,000.

Saskatchewan, Canada — Regina Florist Co., Ltd. Capital \$10,000.

Pittsburgh, Pa.—The Floral Products Company; capital stock, \$10,000. President, Harold M. Weil.

Woburn, Mass.—Arnold-Fisher Co., raise flowers, shrubs, etc. Filed June 7, 1917. \$50,000; 500 shares \$100 each. Directors: F. Gordon Fisher, pres.; Geo. B. Arnold, Stoneham, treas., and A. A. Fisher.

New York City — Hogewoning &

Sons, Inc., Manhattan. Seeds, nursery stock, plants, vegetables, etc.; cap., \$100,000. Incorporators: A. Hogewoning, 200 West 86th street; O. A. Brown, 344 West 72d street, New York city; A. Koppenjan, Hoboken, N. J.

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Worm Food gets them
Pounds 25c, 5lbs \$1.00

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BULB STOCK

Dwarf Double Pearl Tuberoses

Special prices on application.

J. M. THORBURN & CO.

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SPECIALIZE IN

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WHOLESALE ONLY

Write for Special Prices, Spot or
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Only Address, LANGPORT, Eng.

LET US QUOTE YOU PRICES

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Lilium Giganteum Rubrum
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AMERICAN BULB CO.

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Careful Seed Growers For
99 Years

Send for Our 1917 Wholesale Prices
To Florists and Market Gardeners

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ORDER NOW

ASPARAGUS PLUMOSUS NANUS SEED,
greenhouse grown, \$3.50 per 1000, \$15.00 per
5000, \$27.50 per 10,000; Lath-house grown
Seed, \$2.00 per 1000, \$9.00 per 5000, \$17.50
per 10,000. Asparagus Sprengeri Seed, 75c.
per 1000, \$3.00 per 5000.

S. S. SKIDELSKY & CO.

1004 Lincoln Bldg. Philadelphia, Pa.

MY WINTER-ORCHID-FLOWERING
SWEET PEA

Price list has been mailed. It contains
many splendid Novelties. If you have not
received a copy send postal for.

ANT. C. ZVOLANEK

Sweet Pea Ranch Lompoc, Cal.

ROBERT DYSART

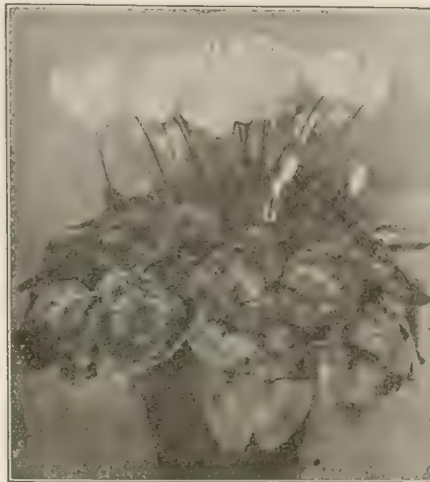
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Simple methods of correct accounting
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Awarded the Gold
Medal of the Massa-
chusetts Horticultural
Society.

Strong plants in 3
inch pots, for delivery
now.

\$10.00 per 100

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LEONARD'S SEEDS

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Arthur T. Boddington Co., Inc.

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128 Chambers St., New York City

Burpee's Seeds

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BLUE LIST OF WHOLESALE PRICES
MAILED ONLY TO THOSE WHO PLANT
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SEEDS, BULBS AND IMPLEMENTS
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Reselected Strains in Seeds.
Improved styles in Implements.
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LILIUM FORMOSUM

8/11, 225 to a case.....\$80.00 per 1000
9/10, 200 to a case..... 85.00 per 1000
11/13, 100 to a case..... 15.00 per case

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8/10, 200 to a case.....\$80.00 per 1000
9/10, 180 to a case..... 90.00 per 1000
11/13, 100 to a case..... 16.00 per case

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Begonia and Gladiolus Bulbs. 1917
Catalogue on application.

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SEEDS, PLANTS AND BULBS
Horticultural Sundries

166 W. 23rd St., NEW YORK

GARDEN SEED

BET, CARROT, PARSNIP, RADISH and
GARDEN PEA SEED in variety; also other
items of the short crop of this past season,
as well as a full line of Garden Seeds, will
be quoted you upon application to

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ALEX. McCONNELL

611 FIFTH AVENUE
NEW YORK CITY

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or intrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

*Cost of Cabling Foreign Deliveries
Must be prepaid*

Reference or cash must accompany all orders from unknown correspondents.

Cable Address, ALEXCONNELL.

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The Florist*

"The Telegraph Florist"

Member of Florists' Telegraph Delivery

124 TREMONT ST.

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Transfer Your Orders to

SAMUEL MURRAY

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Members Florists' Telegraph Delivery

Established 1874

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N. E. Cor. 44 St. & Madison Avenue, N. Y. City
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Flowers shipped on all Steamers. Special Correspondence in all the large cities of Europe and the British Colonies. Telegraph and Cable address. Dardsflor.

DAVID CLARKE'S SONS

Deliver orders from any part of the country to

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Telephone 1550-1550 Columbus

Write or 'Phone

F. H. WEBER'S

Modern Flower Shop for
Artistic and Special Work

N. E. Corner of Taylor and Olive

ST. LOUIS, MO.

M. F. T. D.

ZINN The Florist

For Quality and Promptness
4 PARK ST. - BOSTON

Of Interest to Retail Florists

NEW FLOWER STORES.

Pittsburgh, Pa.—Gentry & Hemling,
41 East Fort Ave.

Houston, Tex.—Miss E. Atwood, succeeding Cotney Floral Company.

Buffalo, N. Y.—J. L. Kramer, 1291 Jefferson St., succeeding Joseph Sangster.

CHICAGO FLORIST INVENTS.

Self-watering flower pots, window boxes and greenhouse benches are the inventions of John Marks of Marks Bros., 4827 Warwick Ave., one of Chicago's florists who works hard with his hands while his mind is also at work planning hard to better growing conditions. His inventions have been patented and manufacture of the flower pots has begun. The principle is that of capillary attraction, by means of a false bottom in the flower pot, made of the same material as the pot itself. The window boxes and greenhouse benches contain hollow building tiles which take up the water in the receptacles and convey it to the soil above. The devices seem simple, inexpensive and effective as tried out in the Marks Bros.' greenhouses, and it is quite probable that more will be heard of them later.

NEWS NOTES.

Detroit—Philip Breitmeyer left on Sunday, June 17, for a visit to his daughter and family in Montana, and enjoy a few months' outing communing with nature in the mountains.

Fitchburg, Mass.—W. H. Ritter has purchased the flower store, which has been conducted for several years by Otto Mallgrav and is now located at 446 Main street. He will continue the business at the same address and under the same name, and has placed Alfred Woollacott in charge as manager. Mr. Mallgrav has disposed of the business on account of the fact that he is making ready for military service, having joined the new battery which is being organized in this city.

Newell B. Vickery and Miss Elizabeth J. Brown, both of Mansfield, Mass., were married on June 14.

Little Ads. That Bring Big Returns

Little Ads. in our Classified Buyers' Directory bring big returns to both advertiser and purchaser.

Anything wanted by florists, gardeners, park and cemetery superintendents, etc., can be sold through this medium.

THEY COST ONLY ONE CENT
A WORD UNDISPLAYED

Don't fail to read over these Ads. in each issue and you may find one or more that will prove profitable to you.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada. Members Florists' Telegraph Delivery Association.



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WASHINGTON, D. C.

Member Florists Telegraph Delivery

Orders for NEW YORK.
Write or Phone to

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22 West 59th St.

Adjoining Plaza Hotel

Best Florists in the States as
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FLOWER DELIVERIES FOR ALBANY
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42 West 28 Street

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NEWPORT, R. I., 145 Bellevue Ave.

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MEMBER F. T. D. A.

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Member Florists' Telegraph
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Michigan Ave. at 31st Street

Prompt Auto Delivery
Service

THOS. F. GALVIN
INC.
NEW YORK 561 Fifth Ave.
Vanderbilt Hotel
BOSTON 1 Park Street
799 Boylston Street
Deliveries to Steamers and all Eastern Ports

CLEVELAND
A. GRAHAM & SON
5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

Orders Filled Day or Night for
CLEVELAND
and State of Ohio
Complete Stock. Regular discount to Trade.
KNOBLE BROS.
1896 W. 25th St., Cleveland, O.
Members Florists' Telegraph Delivery Ass'n.

THE SMITH & FETTERS CO.
735 Euclid Avenue
CLEVELAND, OHIO
Flowers of Every Kind in Season

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1532.
1415 Farnum St.,
OMAHA, NEB.

Rochester, N. Y.
J. B. KELLER SONS,
FLORISTS
25 Clinton Avenue, N.
Rochester Phone 506. Long Dist. Boll Phone 272.
Members Florists' Telegraph Delivery

S. A. ANDERSON
440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
Stock and prompt deliveries in BUFFALO,
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK
Members of Florists' Telegraph Delivery.

HIGH GRADE PLANTS
For Retail Stores a Specialty
ASK FOR LIST
THOMAS ROLAND, Nahant, Mass.
WORCESTER, MASS.
Randall's Flower Shop
HARRY L. RANDALL, Proprietor.
Mention Florists' Telegraph Association

Flowers by Telegraph

Leading Retail Florists Listed by
Towns for Ready Reference. Orders
transferred by telegram or otherwise
to any of the firms whose address is
here given will be promptly and prop-
erly filled and delivered.

Albany, N. Y.—H. G. Eyres, 106 State St.
Albany, N. Y.—The Rosery, 23 Steuben St.
Boston—Thos. F. Galvin, 1 Park St.
Boston—Penn the Florist, 124 Tremont St.
Boston—Zinn The Florist, 4 Park St.
Buffalo, N. Y.—S. A. Anderson, 440 Main St.

Buffalo, N. Y.—Palmer's, 304 Main St.
Chicago—William J. Smyth, Michigan Ave. and 31st St.

Cleveland, O.—J. M. Gasser Co., Euclid Ave.

Cleveland, O.—Adam Graham & Sons, 5523 Euclid Ave.

Cleveland, O.—Knoble Bros., 1838 W. 25th St.

Cleveland, O.—The Smith & Fetters Co., 735 Euclid Ave.

Denver, Col.—Park Floral Co., 1643 Broadway.

Detroit, Mich.—J. Breitmeyer's Sons, corner Broadway and Gratiot Ave.

Houston, Tex.—Kerr, The Florist.
Kansas City, Mo.—Samuel Murray, 1017 Grand Ave.

Los Angeles, Calif.—Howard & Smith, 853 So. Olive St.

New London, Conn.—Reuter's.
New York—J. H. Small & Sons, 505 Madison Ave., at 52d St.

New York—David Clarke's Sons, 2139-2141 Broadway.

New York—Alex. McConnell, 611 5th Ave.

New York—Young & Nugent, 42 W. 28th.

New York—A. T. Bunyard, 413 Madison Ave., at 48th St.

New York—Dards, N. E. corner 44th St. and Madison Ave.

New York—Max Schling, 22 W. 59th St.

New York—G. E. M. Stumpp, 761 Fifth Ave.

New York—Thos. F. Galvin, Fifth Ave., at 46th St.

Norwich, Conn.—Reuter's.

Omaha, Neb.—Hess & Swoboda, 1415 Farnum St.

Rochester, N. Y.—J. B. Keller Sons, 25 Clinton Ave., N.

St. Louis, Mo.—Fred C. Weber, 4326-28 Olive St.

St. Louis, Mo.—F. H. Weber's, N. E. corner of Taylor and Olive Sts.

St. Paul, Minn.—Holm & Olson, Inc.

Tarrytown-on-Hudson, N. Y.—F. R. Pier-son Co.

Toronto, Can.—J. H. Dunlop, 8-10 West Adelaide St.

Washington, D. C.—Gude Bros., 1214 F St.

Washington, D. C.—George H. Cooke, Connecticut Ave. and L St.

Westerly, R. I.—Reuter's.

Worcester, Mass.—Randall's Flower Shop, 22 Pearl St.

Send Telegraph, Telephone or Mail orders for florist service in this vicinity to

Howard & Smith

853 SO. OLIVE ST.

Los Angeles, Calif.

Every Order sure to receive prompt and careful attention.

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We cover the territory between

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Delivered on mail or telegraph order for any occasion, in any part of the Dominion.

JOHN H. DUNLOP
8-10 West Adelaide St. - TORONTO, ONT.
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EYRES
Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY ON TELEGRAPHIC ORDER

106 STATE STREET, ALBANY, N. Y.

"THE HOME OF FLOWERS"

The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention

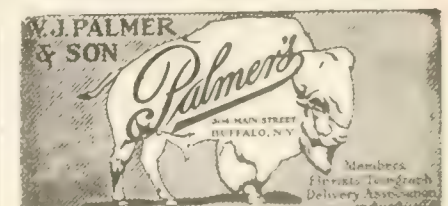
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Members Florists' Telegraph Delivery.

DENVER, COLORADO



KERR ORDERS FOR TEXAS
HOUSTON, TEXAS
The Florist Member F. T. D. Association

NEWS ITEMS FROM EVERYWHERE

BOSTON.

John Van Leenwen, who has been, for some time past, foreman at the Dedham nurseries of R. & J. Farquhar & Co., has gone to the Bobbink & Atkins nurseries at Rutherford, N. J.

"Business as usual" is running a close race with the sign, "Look out for paint," this week, at the headquarters of B. A. Snyder & Co., on Devonshire St., who are completely renovating their establishment.

While driving to the station from his home in East Weymouth on Wednesday morning this week, Col. W. W. Castle was thrown from his buggy by the breaking of the forward axle and sustained a fracture of the shoulder blade and a general severe shaking up.

By a vote of 8 to 7 the Cambridge City Council has at last confirmed the nomination of Professor Carroll W. Doten as a member of the board of park commissioners. Mr. Doten is a technical man of high attainments and his presence on the board of park commissioners will be of great value to the city.

The cold and rainy season has so delayed the blooming of early flowering plants like Lilacs, which were three weeks later than usual, that trees and shrubs whose flowering periods are normally several weeks apart are now in bloom together at the Arnold Arboretum and probably there has never been a time when so many different flowers could be seen here at once as are open this week. Azaleas, Rhododendrons, Wisterias, Viburnums, Cornels, Laburnums, American Crabapples, Hawthorns, Roses, Diervillas, Dipeltas, Syringas, Horsechestnuts, Buckeyes, Maples, Barberries, Siberian Pea-trees, Aro-nias, Robinias, Mountain Ashes, and Cotoneasters are a few of the genera represented by many species which are now covered with flowers in the Arboretum.

ROCHESTER, N. Y.

Many dealers report very attractive business in the bedding line whilst store trade is very quiet.

W. Kavanaugh of J. B. Keller Sons, is traveling for the Catholic Medal Association and is doing well.

The Rochester Floral Co. had an elaborate window decoration in honor of Marine Week here. Baskets of red, white and blue flowers were a feature.

E. C. Kalber, Inc., had an elaborate wedding decoration in Saginaw, Mich. The house was profusely decorated with asparagus, yellow daisies, spirea, pink peonies and snowball. A large marquee on the lawn was sumptuously lighted and decorated with hanging baskets of pink roses.

A considerable amount of replanting appears to be necessary in scattering

districts because of the seed failing to germinate due to unfavorable weather conditions. Excessively heavy rainfall in some places accompanied by hail and high winds greatly damaged and even destroyed crops by flooding and washing the fields in various places in and around Rochester.

WASHINGTON, D. C.

The shrubs, plants, and vines distributed from the Miami, Fla., station of the Bureau of Plant Industry, will be handled by Edward Simmonds, gardener and fruit station superintendent.

Fred H. Kramer is going out of the pot plant business and is planning to utilize the large conservatory at the rear of his store as a palm garden for the sale of ice cream and other like commodities. The store proper will be continued as at present for the sale of cut flowers, and will be operated in conjunction with the greenhouses in Anacostia. The new palm garden will be ready for opening early in July.

Washington florists are very much elated over the elevation of Edward S. Schmid, to the office of Grand Monarch of the Mystic Order of the Enchanted Realm. The local organization, Kallipolis Grotto, numbers among its membership the largest part of the florists of Washington. William F. Gude was in charge of the entertainment and with Mr. Schmid superintended the planting of a tree, a cedar of Lebanon, at Mount Vernon.

The experimental rose garden at Arlington Farms, Va., is due to undergo a considerable change, if the visit of Professor L. C. Corbett, of the Department of Agriculture, to New York, for the purpose of conferring with the American Fine Arts Commission has any significance. When the members of the American Rose Society visited the gardens early in the month, they made a number of suggestions as to how the rose garden could be made more beautiful.

There seems to be considerable enthusiasm among the Washington florists covering the coming convention of the S. A. F. & O. H., in New York, and despite the fact that all the elaborate entertainment features of previous years are to be cut out, a very large attendance is assured. The question of going to the convention will be discussed at length at the club meeting on July 3. It is expected that the largest delegation that has ever left Washington for such an event will be noted at the convention.

CHICAGO.

A. Henderson & Co. report the close of what has been a most successful season to them.

Several down-state florists are in Chicago attending the convention of the Modern Woodmen of America this week.

W. W. Adams is now established in his new store at State and Division streets and is much pleased with his new location.

A trip over Chicago's 55 miles of boulevard connecting its chain of parks reveals a wealth of green almost unrelieved by color. The geraniums are scarcely showing color and the shrubbery was quickly robbed of bloom by the rain and wind.

The season for bedding plants is practically closed and from the general reports the demand was much lighter than usual. This was due partly to unfavorable weather and partly to the unusual trend of opinion in favor of vegetable rather than flower gardens.

Three young men employed in the wholesale stores leave June 25 for an entirely different line of work and to see what are the opportunities offered by the great west. Arthur Pasternick, of the Chicago Flower Growers' Ass'n, Edw. Velter, with J. A. Budlong, and Leon Glaser, with the A. L. Randall Co., will try outdoor life near Jerome, Idaho.

One of the prettiest novelties seen in the new goods at Poehlmann Bros.' supply department is the mirror basket or half-basket which when fitted and hung against a mirror looks like a complete basket. One of these containing white flowers and tied with a bow of lavender ribbon illustrated another use to which it could be put, and as it holds a water container its use on a door would be both beautiful and serviceable, and much more satisfactory than the old-time spray of wind-whipped, faded flowers.

Baltimore—The heavy hail storm of June 6 did its worst damage at Reisterstown and Hagerstown where growing crops were mercilessly destroyed and glass houses were riddled. Charles G. Wright was the heaviest loser at Reisterstown and H. A. Bester & Sons at Hagerstown lost about 75,000 sq. ft. of glass.

H. BAYERSDORFER & CO.
Manufacturers and Importers
 1129 Arch St. PHILADELPHIA, PA.
 A Full Line of Bridal Accessories for the June Wedding Decorations
STOCK UP NOW
THE LEADING FLORISTS' SUPPLY HOUSE OF AMERICA

PITTSBURGH.

Anthony W. Smith, Jr., is making a ten days' visit in Atlanta, Georgia, as a delegate to the annual convention of the Rotary Club in session there.

Charles R. McAfee and Francis Babylon, attaches of the E. C. Ludwig Company, are gaining reputations as patriotic orators at local flag day raisings.

The Ludwig Floral Company is installing an improved elevator system in their Federal street plant. George Meuschke, a director of the company, has begun the erection of a fine white brick residence on the site of the greenhouse at Castle Shannon, Pa.

The McCallum Company has issued invitations to their employees and retail patrons for a basket picnic to be held on "The Fourth" at Nursery Stop on the Harmony Line, where their greenhouses are located. E. J. McCallum is chairman of the committee in charge.

A distinctive window decoration recently seen down town was formed of three irregularly placed tables of cattleyas with a side massing of Crimson Ramblers and quantities of silken flags. In the rear were tall bronze Grecian jars of lilies, while the intervening floor space was filled with maidenhair ferns.

A charming arrangement of flowers in Dresden effect were used recently by Randolph & McClements for a dinner party. The table was centered with a basket of pink roses and white and lavender iris and tied with blue picot ribbon and white tulle. Colonial bouquets of yellow, white and lavender iris were used as corsage favors.

The International Forestry Conservation Congress, including the exhibit of the U. S. forest service, will open in the auditorium of the Chamber of Commerce next Thursday. There will be a special exhibit of the white pine blister rust by the forestry department of Pennsylvania. More than 100 of the leading foresters of the country will attend.

ST. LOUIS.

W. J. Pilcher will plant an extra supply of Hadley roses for next year.

Myer Brothers are in with outdoor sweet peas; also the Deutchmann boys.

The annual picnic given by the St. Louis Florist Club will be held at Ramona Park, in July.

The wholesale houses during the summer season will close daily at 5 p. m. and on Saturdays at noon.

The St. Louis Florist Club met on June 14 at the Missouri Pottery & Supply Co., 75 members being present.

NEW YORK.

The Greek-American Florists' Outing will take place on July 11 at Wetzel's Point Grove.

P. G. Panos has discontinued his retail flower store at 125th street and Fifth avenue.

A rose fete for the benefit of the American Ambulance Hospital in France has been in progress this week at Admiral Ward's estate, Roslyn, L. I.

HOTEL CUMBERLAND

NEW YORK, Broadway at 54th Street



Broadway cars
from Grand
Central Depot

7th Avenue Cars
from Penn'a
Station

New and
Fireproof

Strictly First-Class
Rates Reasonable

Rooms with Adjoining Bath
\$1.50 up

Rooms with Private Bath
\$2.00 up

Suites \$4.00 up

10 Minutes Walk to 40 Theatres

Send for Booklet

HARRY P. STIMSON

Formerly with Hotel Imperial

Only New York Hotel Window-Screened Throughout

"CHEAP" FRUIT TREES.

For some time past we have been receiving newspaper clippings from various places in Maine, Massachusetts and New York, gleefully calling attention editorially and otherwise to the offer of some 200,000 surplus fruit trees which the Horticultural Nurseries of Dansville, N. Y., had left on their hands and were prepared to deliver to the public as a philanthropic proposition at ten cents apiece—practically the cost of packing and transportation. Naturally the response was prompt and insistent from all quarters. But State Horticulturist Dudley of Maine, in the performance of his official duties, got after the trees that were being distributed in his state and is said to have found fully half of the stock affected with crown gall and hairy root. And now consternation reigns among those who purchased.

The "Horticultural Nurseries" does not appear among the places listed in the American Florist Directory, but, we are informed, is conducted by John H. Reilly and Thomas P. Reilly, who were interested in the Reilly Bros. Nurseries, formerly of Danville, but which, it is stated, went into bankruptcy about two years ago.

There is located in Dansville an establishment under the name of The William J. Reilly Nurseries which has no connection with the aforementioned concern. "The Horticultural Nurseries" have an advertisement in the Augusta, Me., Journal disputing the findings of the State Horticulturist.

MASS. AGRICULTURAL COLLEGE.

Massachusetts Agricultural College for the first time in half a century will not hold commencement exercises this year. The reason is that every one of the seniors of the college, who for four years has been looking ahead to this year's commencement, is absent on account of the war and is either in military or agricultural service. It has

been arranged by the faculty to send by mail the diplomas to be given to the some 100 graduates this year.

A CORRECTION.

Burning the midnight oil and an otherwise unaccountable absent-mindedness appear to have been the reason for a vexatious slip of the pen last week when we credited to Leonard Barron the enjoyable lecture by J. Otto Thilow before the New York Florists' Club. Mr. Barron, however, was chairman of the essay committee that secured Mr. Thilow. Both gentlemen have forgiven us.

To Leisureland

where woods are cool, streams alluring, vacations ideal. Between New York City (with Albany and Troy the gateways) and

**Lake George
The Adirondacks
Lake Champlain
The North and West**

The Logical Route is "The Luxurious Way"

Largest and most magnificent river steamships in the world

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COMPANY**

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"The Searchlight Route"

10,000 BEAUTY ROSE PLANTS

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Special price in quantity

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TRY Horticulture's Advertisers FIRST

Before Looking Elsewhere

Tell Them You Did So And
They'll Reciprocate

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1619 - 21 Ranstead St., Philadelphia, Pa.

CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

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RICHMOND, IND.

Please mention Horticulture when writing.

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POEHLMANN BROS. CO.

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WELCH BROS. CO. Wholesale Cut Flower Market

Daily consignments from leading growers Full line of Florists' Supplies Write for quotations before ordering elsewhere

262B DEVONSHIRE ST., BOSTON, MASS.
Telephone, Main 6267-6268

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON June 21		ST. LOUIS June 18		PHILA. May 18	
Roses						
Am. Beauty, Special	20.00	to 23.00	30.00	to 40.00	20.00	to 25.00
" " Fancy and Extra	8.00	to 15.00	20.00	to 25.00	12.00	to 15.00
" " No. 1 and culls	3.00	to 6.00	5.00	to 10.00	3.00	to 10.00
Russell, Euler, Mock	1.00	to 6.00	8.00	to 13.00	3.00	to 20.00
Hadley	1.00	to 10.00	10.00	to 12.50	3.00	to 10.00
Arenberg, Hoosier Beauty	.90	to 4.00	.....	.....	3.00	to 10.00
Ward	.50	to 4.00	2.00	to 4.00	3.00	to 6.00
Killarney, Radiance, Taft	.50	to 4.00	1.00	to 3.00	3.00	to 10.00
Opheia, Sunburst, Hillingdon	.50	to 5.00	3.00	to 6.00	3.00	to 10.00
Key	.50	to 4.00	.....	.....	3.00	to 10.00
Carnations	.50	to 1.00	1.00	to 3.00	2.00	to 6.00
Cattleyas	40.00	to 75.00	.....	.....	35.00	to 60.00
Dendrobium formosum	.....	.....	.....	.....	.....	.....
Lilies, Longiflorum	1.00	to 50.00	.....	.....	.....	.....
Lilies, Speciosum	.....	.....	5.00	to 8.00	6.00	to 10.00
Lily of the Valley	.....	.....	.....	.....	.....	.....
Snopdragon	5.00	to 6.00	4.00	to 5.00	8.00	to 10.00
Peonies	1.00	to 3.00	4.00	to 6.00	1.00	to 6.00
Gladioli	8.00	to 4.00	3.00	to 4.00	2.00	to 10.00
Calendulas	1.00	to 8.00	6.00	to 8.00	2.00	to 3.00
Sweet Peas	.50	to 1.00	1.00	to 2.00	.90	to 1.00
Marguerites	.25	to .50	.20	to .30	.....	.....
Gardenias	.50	to 1.50	.....	.....	.50	to 1.50
Adiantum	4.00	to 8.00	.....	.....	.....	.....
Smilax	.50	to 1.00	.....	.....	.75	to 1.50
Asparagus Plumosus, & Spreng. (100 Bchs.)	15.00	to 25.00	12.50	to 30.00
	25.00	to 25.00	25.00	to 35.00	42.00	to 50.00

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J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER of

CUT FLOWERS

Flower Market Reports

BOSTON Trade has been quite brisk at times during the past week, thanks to the school affairs and nuptial festivities. Particularly good has been the call for red flowers—roses, carnations, peonies, etc. White material is heavily overstocked, especially lilies and white carnations and now that peonies are beginning to pile up the situation promises to get worse. There are still some Spanish irises to be seen also quantities of feverfew, candytuft, astilbe, baby gladioli and other material which missed Memorial Day. Outdoor lily of the valley has finished up and once more the indoor brand is in control and with price stiffened up accordingly. Carnation quality is still very good but sweet peas and snapdragons are decidedly down in the scale. America and other large gladioli are excellent and sell for a fair price. Baby gladioli are too plentiful for the limited demand.

CHICAGO The market is full of flowers and summer conditions have come almost over night. The cold, backward spring has held back the local peonies, but now they are coming in so rapidly that some are being put into cold storage. There was a short time between the southern crop and the northern one when the demand used them all, but with this exception the market has not been particularly strong so far, though comparatively few peonies were thrown away. The special sales of flowers in the department stores show the condition of the market, and also make matters hard for the retail florists, who cannot compete with the prices in the big stores. The buyers of the stores secure stock much lower than the retail florist can purchase it. The street corner merchant appears to be doing a good business also. Shipping trade is the real standby of the large houses.

NEW YORK The flower market is steadily drifting towards the customary summer dead level of inactivity. Some desultory buying due to the characteristic festivities of Merry June still serves to keep things moving but the snap is rapidly disappearing and vacations will soon be in order. The receipts of flowers are still much too heavy for the requirements of the market and quantities of good stock go to loss for lack of a purchaser at any price. As a rule quality holds up well, especially on roses. There are some superb cattleyas to be seen. Peonies are heaped high on all sides but their stay will soon come to a close.

PHILADELPHIA There was a deluge of flowers in this market last week, the peony crop being particularly in evidence. The glut in the latter is now about over, however, as local stocks are mostly all cut and there is less than usual in cold storage. They came all in a rush this year and a couple of weeks late so that the ridiculously low price they realized was to be expected. Rose market rather overstocked but the good ones sold



DELPHINIUM

In dark and light blues; mostly like the Belladonna shade. Wonderfully attractive in any kind of work.

\$5.00 and \$6.00 per 100

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Dorothy Perkins, Excelsta, American Pillar, Etc.

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WHOLESALE FLOWER MARKETS — TRADE PRICES—Per 100 TO DEALERS ONLY

	CINCINNATI June 18	CHICAGO June 18	BUFFALO June 4	PITTSBURG June 19
Roses				
Am. Beauty, Special.....	30.00 to 35.00	25.00 to 30.00	20.00 to 25.00	25.00 to 30.00
" " Fancy and Extra.....	15.00 to 25.00	15.00 to 25.00	15.00 to 20.00	15.00 to 18.00
" " No. 1 and culls.....	4.00 to 10.00	6.00 to 10.00	3.00 to 10.00	8.00 to 15.00
Russell, Euler, Mock.....	5.00 to 10.00	6.00 to 25.00	3.00 to 12.00	6.00 to 10.00
Hadley.....	5.00 to 10.00	.....	5.00 to 8.00	.....
Arenberg, Hoosier Beauty.....	4.00 to 10.00	2.00 to 10.00	4.00 to 10.00	.....
Ward.....	3.00 to 6.00	2.00 to 8.00	3.00 to 5.00	4.00 to 8.00
Killarney, Radiance, Taft.....	3.00 to 8.00	2.00 to 8.00	2.00 to 6.00	3.00 to 10.00
Ophelia, Sunburst, Hillingdon.....	3.00 to 10.00	3.00 to 10.00	3.00 to 8.00	4.00 to 12.00
Key.....	.....	.....	.....	.....
Carnations	2.00 to 3.00	1.00 to 3.00	2.00 to 3.00	1.00 to 2.00
Cattleyas.....	.....	50.00 to 75.00	40.00 to 50.00	.....
Dendrobium formosum.....	.....	.....	.....	.....
Lilies, Longiflorum	10.00 to 12.50	4.00 to 12.00	6.00 to 10.00	6.00 to 10.00
Lilies, Speciosum.....	.....	.....	4.00 to 6.00	5.00 to 6.00
Lily of the Valley.....	.....	4.00 to 6.00	4.00 to 6.00	2.00 to 4.00
Snapdragon	4.00 to 8.00	4.00 to 8.00	4.00 to 6.00	.....
Peonies.....	.....	.....	.....	.....
Gladioli	4.00 to 6.00	2.00 to 6.00	.....	.....
Calendulas	2.00 to 3.00	.....	2.00 to 3.00	.50 to 1.00
Sweet Peas.....	.35 to .50	.25 to 1.00	.50 to 1.25	.10 to .75
Marguerites.....	.....	2.00 to 3.00	.....	20.00 to 35.00
Gardenias.....	.....	1.00 to 1.25	.50 to 1.00	1.00 to 1.25
Adiantum.....	.....	15.00 to 20.00	15.00 to 20.00	15.00 to 20.00
Smilax.....	.....	25.00 to 35.00	25.00 to 35.00	30.00 to 60.00
Asparagus Plu. & Spren. (100 Bhs.)	25.00 to 35.00	25.00 to 50.00	25.00 to 35.00	30.00 to 60.00

fairly well. Bright spots were Hadley, Beauty and Russell. These three were very good and were in excellent demand. Carnations are still very plentiful and unusually good—probably the best ever handled at this season of the year. Sweet peas still pretty good although a little soft during the warm spell. These and roses seem to be the favorites for June weddings and commencements. Delphiniums are a prominent feature of the market and are wonderfully good this year. Gladioli in strong supply and selling fair.

Orchids plentiful and splendid quality. Snapdragon nearly over. Indoor lily of the valley is in good demand and excellent quality but the outdoor from Eastern points is poor and draggy. Lilies slow but now that peonies are about past they should pick up some.

Owing to the **PITTSBURGH** season of weddings and school commencements, business has kept up fairly well, notwithstanding the general war economy agitation. Good

(Continued on page 804)



IN CHICAGO

For the Retailer or for the Grower
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FANCY GRADE ORCHIDS, SEPTEMBER MOEN, AMERICAN BEAUTY, PRIMA
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ASPARAGUS AND SMILAX and all other Seasonable Flowers.

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NEW YORK QUOTATIONS PER 100. To Dealers Only**ROSES AND CARNATIONS**

	Last Half of Week ending June 16 1917	First Half of Week beginning June 18 1917
American Beauty, Special	15.00 to 20.00	15.00 to 20.00
" " Fancy and Extra	10.00 to 15.00	10.00 to 15.00
" " No. 1 and culls	1.00 to 6.00	1.00 to 6.00
Russell, Euler, Mock .....	.50 to 6.00	.50 to 6.00
Hadley	1.00 to 25.00	1.00 to 25.00
Arenberg, Hoosier Beauty .....	.50 to 5.00	.50 to 4.00
Ward .....	.50 to 4.00	.50 to 4.00
Killaryney, Radiance, Taft .....	.50 to 4.00	.50 to 4.00
Ophelia, Sunburst, Hillingdon50 to 4.00	.50 to 4.00
Key50 to 4.00	.50 to 4.00
Carnations25 to 1.00	.25 to 1.00

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Wholesale Commission Dealer in
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Methods Fair and Liberal. Relations
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Telephones, 13—8510 Madison Square
MAURICE L. GLASS, Treasurer
Consignments Solicited

Flower Market Reports

(Continued from page 799)

roses are bringing their equivalent in prices. Fine Spanish iris is coming in, while, on the other hand, the carnation crop is falling off. Peonies are improving in all-round quality as the season advances and one retail house, which features this flower is now disposing of its surplus stock to the wholesale trade.

Trade has been very poor for the past week and large quantities of stock have been coming in for which there has been very little demand. The market is well filled with all grades of roses. Carnations are very plentiful but appear to be somewhat sleepy and drag considerably. Peonies are in abundance and have sold fairly well for the week end. Large quantities of out door iris arrive but do not sell well. Some very fine gladioli sell good. All greens are plentiful. Good business is looked for during the coming week as a number of graduations and weddings are due.

School closings have caused the florists generally to be kept busy. Stock is looking good. Russell, Hadley, Ophelia and Ward roses are showing up well but carnations are getting smaller and show the effects of the weather. Outdoor sweet peas are here and are of fairly good quality. Ferns have been very scarce.

Weather conditions have brought a great many surprises to the florists. Never before in the memory of the oldest of them has such a hailstorm as was noted last week hit this section. A great deal of damage was caused in the city to outdoor flowers and plants, making additional business for the growers, but, strange to say, the large ranges at Anacostia escaped. The cold wave which accompanied the hailstorm, however, badly retarded all flowers, with the result that prices stiffened materially. Business during the month was very good, due to a number of large weddings and the usual number of graduation exercises.

THE NEWPORT WAY.

At a meeting of the Newport Horticultural Society held on the 12th inst. a resolution was passed to hold the June exhibition in a hall in the center of the city, that an admission fee be asked, and that booths be added for the sale of flowers and other products. It was also resolved that the proceeds from admission fees and sale of flowers, as well as the prize money offered be donated to the Newport Chapter of the Red Cross.

The Lafayette Hall has been secured for the exhibition and although it is not as large as desired for the proper display of the show and although the backward season will curtail exhibits to some extent, the gardeners of Newport do not stand on any false pride in holding the exhibition, feeling as we do that the object is worthy of the effort.

WILLIAM GRAY.

PATRICK WELCH, WHOLESALE FLORIST

262 DEVONSHIRE STREET, BOSTON, MASS.

American Beauties, Orchids, Valley, Carnations. All the novelties in the Cut Flower Market furnished on short notice. Prices quoted on application. No retail orders accepted. Flowers shipped out of Boston on early trains.

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WHOLESALE FLORIST

Can handle shipments of growers' product satisfactorily. Would like to hear from Growers of Snapdragons and Sweet Peas, etc., for the New York trade.

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Tel Farragut 3066

NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS	Last Half of Week ending June 16 1917		First Half of Week beginning June 18 1917	
Cattleyas.....	15.00	to 40.00	20.00	to 60.00
Dendrobium formosum.....	.....	to 40.00	.....	to 40.00
Lilies, Longiflorum.....	1.00	to 3.00	1.00	to 3.00
Lilies, Speciosum.....	1.00	to 3.00	1.00	to 3.00
Lily of the Valley.....	4.00	to 5.00	4.00	to 6.00
Snapdragon.....	1.00	to 3.00	1.00	to 3.00
Spanish Iris.....	1.00	to 2.00	1.00	to 2.00
Peonies.....	.50	to 1.00	.50	to 1.00
Gladioli.....	.50	to 4.00	.50	to 3.00
Calendulas.....	.50	to 1.00	.50	to 1.00
Sweet Peas.....	.15	to .50	.15	to .50
Marguerites.....	1.00	to 2.00	1.00	to 2.00
Gardenias.....	10.00	to 20.00	10.00	to 20.00
Adiantum.....	.50	to 1.00	.50	to 1.00
Smilax.....	15.00	to 20.00	15.00	to 20.00
Asparagus Plumosus, & Spreng (100 bunches).....	15.00	to 25.00	15.00	to 25.00

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Always Ready to Receive Consignments and Can Market Them Satisfactorily. Wanted Specially, Early Peonies, Gladioli, etc., for Spring Trade.

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PITTSBURGH CUT FLOWER CO.

116-118 Seventh St., PITTSBURGH, PA.

OBITUARY.

Clarence L. Metcalf.

Clarence L. Metcalf, a well-known florist of the Bushwick section of Brooklyn, N. Y., died on June 11, at his home, 922 Hancock street, in the 39th year of his age. He is survived by his wife and one son.

M. I. O'Brien.

M. I. O'Brien, for many years a leading florist of Sharon, Pa., died on June 1st, after a long illness extending over several years. He was born in Ireland sixty-nine years ago and came to Pennsylvania with his parents when a child. He was an affable, kindly gentleman and had a host of friends in Sharon.

UNITED CUT FLOWER CO., INC.

Flowers Sold on Commission
Consignments of
Good Stock Solicited

111 W. 28th St., - NEW YORK

Established 1888

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Wholesale Commission Florists
110 West 28th St., New York

We Solicit Consignments of New England Grown Novelties.

Beechwood Heights Nurseries

Importers and Growers of

ORCHIDS

Cut Flowers of All the Leading Varieties in their Season.

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Florists' Supplies

We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties
Decorative Glassware, Growers and Florists' Requisites

Buyer's Directory and Ready Reference Guide

Advertisements under this head, one cent a word. Initials count as words.

Display Advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

Buyers failing to find what they want in this list will confer a favor by writing us and we will try to put them in communication with reliable dealers.

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APHIS PUNK

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S. S. Skidelsky & Co., Philadelphia, Pa.
Plumous Nanus.
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ASPARAGUS

Asparagus Plumous Seedlings, \$1.00 per 100, \$6.00 per 1000. Ready May 1st. COLLINGDALE GREENHOUSES, Collingdale, Pa.

ASTERS

Asters—Thinly sown, strong field-grown plants, fully as good as transplanted: Queen of the Market, Semple's Branching, Crego and Mikado, separate colors, \$3.50 per 1000. Cash. BRILL CELERY GARDENS, Kalamazoo, Mich.

AZALEAS

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Chattelaine Begonias, 2½-inch pots, in full bloom now, \$3.00 per 100, \$25.00 per 1000. HENRY F. MICHELL CO., 518 Market St., Philadelphia, Pa.

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Geraniums, Nutt, Ricard, Viaud, Buchner, 4-in., \$8.00 per 100. Nutt and Rose Scented, 3½-in., \$6.00 per 100. Germany Ivy, Canna Robusta, 3½-in., \$6.00 per 100. Dracaena indivisa, 3-in., \$7.00 per 100. Geranium Salleri, Coleus Trailing Queen, Begonia Vernon, Blue Ageratum, White Daisy, 3-in., \$5.00 per 100. White Daisy, 4-in., \$15.00 per 100. Cash. F. SOKOL, College Street, Worcester, Mass.

BEGONIAS

BEGONIA LORRAINE.
2½-in. pots, \$14.00 per 100; \$120.00 per 1000.
BEGONIA MRS. J. A. PETERSON.
2½-in. pots, \$20.00 per 100; \$180.00 per 1000.
JULIUS ROEHRS COMPANY,
Rutherford, N. J.

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Arthur T. Boddington Co., Inc., New York City.
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C. KEUR & SONS, HILLEGOM, Holland.
Bulbs of all descriptions. Write for prices.
NEW YORK BRANCH, 8-10 Bridge St.

CANNAS

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CARNATIONS

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WANTED—Regularly Red and White Carnation Flowers. Would like to hear from reliable grower. We use 75,000 yearly. F. G. VALENTINE, 165 E. 110th St., New York, N. Y.

CARNATION STAPLES

Split carnations quickly, easily and cheaply mended. Pillsbury's Carnation Staple, 1000 for 35c.; 3000 for \$1.00 post-paid. I. L. PILLSBURY, Galesburg, Ill.

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CYCLAMENS

CYCLAMEN—Best strain, separate colors, or mixed, 2¼ in. pots, \$7.50 per 100; \$80.00 per 1000. J. H. FIESSER, North Bergen, N. J.

CYCLAMENS.

Best strain separate colors or mixed. 3-in. pots, \$10.00 per 100; \$90.00 per 1000. JULIUS ROEHRS COMPANY, Rutherford, N. J.

DAHLIAS

Peouy Dahlia Mrs. Frederick Grinnell.
Stock For Sale.
JOHN P. ROONEY, New Bedford, Mass.

ORDERS BOOKED ANY TIME
For Fall or Spring delivery. Wholesale and Retail. Send for Catalogue. NORTHBORO DAHLIA & GLADIOLUS GARDENS, J. L. Moore, Prop., Northboro, Mass.

NEW PAEONY DAHLIA

John Wanamaker, Newest, Handsomest, Best. New color, new form and new habit of growth. Big stock of best cut-flower varieties. Send list of wants to PEACOCK DAHLIA FARMS, Berlin, N. J.

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30,000 Teddy and Scotti Ferns, extra fine stock, 2½-inch pots, \$4.50 per 100, \$40.00 per 1000; 4-inch, strong, \$15.00 per 100. HENRY F. MICHELL CO., 518 Market St., Philadelphia, Pa.

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Greenhouse glass, lowest prices. JOHN-STON GLASS CO., Hartford City, Ind.

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GOLD FISH

Gold fish, aquarium plants, snails, castles, globes, aquarium, fish goods, nets, etc., wholesale. FRANKLIN BARRETT, Breeder, 4815 D St., Olney, Philadelphia, Pa. Large breeding pairs for sale. Send for price list.

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PEONIES

Peonies. The world's greatest collection.
1200 sorts. Send for list. C. BETSCHER,
Canal Dover, O.
Complete manuals on the Peony, Iris and
Phlox. 25 cents each in stamps. C. S.
HARRISON, York, Nebraska.

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SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. LAGER
& HURRELL, Summit, N. J.

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Celery plants, Golden Self Blanching
(French strain), Giant Paschal, also the
grand new Easy Blanching variety, which
is easy to grow; fine plants, ready for the
field, \$2.00 per 1000, or \$8.75 for 5000. Cash.
BRILL CELERY GARDENS, Kalamazoo,
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VINCAS

Vinca variegata from 4 in. pots, price
\$10.00 to \$15.00 per hundred.
WM. CAPSTICK, Auburndale, Mass.

Vinca variegata, 3½ and 4 inch pots, \$10,
\$12 and \$15 per 100. 5 inch pots, \$18, \$20
and \$25 per 100. Cash with order, please.
CHRISTOFFERSON BROS., North Beverly,
Mass.

VINES

Flowering and Foliage Vines, choice
collection. Large Specimen, Pot and Tub
grown for immediate effect; also Climbing
Roses. J. H. TROY, Mount Hissarlik Nur-
sery, New Rochelle, N. Y.

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BEDDING PLANTS.

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Patrick Welch, 262 Devonshire St., Boston.
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SASH OPERATING DEVICE AND GREENHOUSE FITTINGS.

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IRISES AT NEW HAVEN.

The New Haven County Horticultural Society held its Iris Show in the spacious rooms of the New Haven Public Library on Friday and Saturday, June 15th and 16th. The exhibition was a complete success, being visited by thousands of people.

A great deal of interest was displayed by the public on account of the prominence of the exhibitors and the wonderful record which they had made. Mrs. Jenkins lays claim to having seven hundred varieties of Iris in her collection. The collection is situated on the grounds of the Connecticut Agricultural Experiment Station, of which her husband is the director. Among her exhibits were Queen of May, Oriflamme, Mrs. H. Darling, Palida, Princess Beatrice, Speciosa Dalmatica, Hector, Neglecta, Aurea, Lohengrin, Mrs. C. J. Sherwin, Kharput, Iris Cypriana, and many others. In addition to these she has seventy seedlings, many of them very fine.

Miss Van Name, the daughter of Addison Van Name, librarian emeritus of Yale University also boasts of having over seven hundred varieties of iris in her collection. She shows two pretty seedlings: "Purity," a beautiful white bloom, and "Emperor," a majestic purple flower.

Among the several varieties Miss Van Name showed Iris tectorum, Japan roof iris, violet, purple, white; Iris graminea the flower of which is dainty and very fragrant; Rhein Nixie, a beautiful and delicate bloom, white and purple; Wyndham, Iris siberica, a native of Siberia, light blue, and others.

While Mrs. Jenkins has made a great success with her seedlings, Miss Van Name has turned her efforts in another direction. She has achieved a wonderful record in hybridizing and crossing of the garden species thus producing a great many varieties, known only by garden names.

E. F. Coe, of the Elm City Nursery Co., made a very fine exhibit. His flowers were elegantly staged. There were several other exhibitors who made a good showing. The New Haven County Horticultural Society have every reason to be proud of the success of their Iris Show of 1917.

WANTS, FOR SALE, Etc.

On Account of Sickness

The well known florist and student of George Anderson at 51st and Woodland Aves., Philadelphia.

FOR RENT

To a responsible party on reasonable terms as a going concern, fourteen greenhouses covering approximately seventy five thousand square feet in good condition, steam heat, twelve of which are planted in roses. The place is especially desirable for a plant business on account of its proximity to the center of the city. Apply to Mrs. George Anderson at the above address. Can be seen at any time.

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The unique monthly publication which furnishes reliable and interesting up-to-date information regarding the value of pecans and other edible nuts and how to grow them for profit.

Subscription, \$1.00 per year

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Washington, D. C.—Edgar and Fred Hall, Austin, Tex.; Edward A. Seidewitz, Baltimore, Md.; John H. Bockman, H. F. Michell Company, Phila., Pa.; C. H. McDermott, Lord & Burnham Co., Phila.

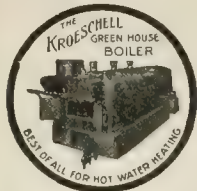
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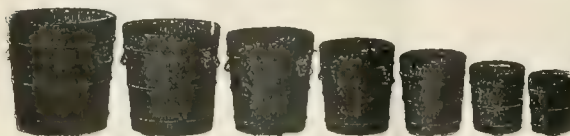
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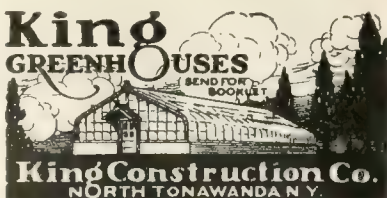
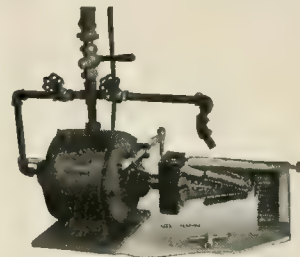
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60	10 in.	.40	4.40	35.00
70	8 in.	.30	3.50	25.00

Manufactured for us exclusively. The best tub ever introduced. The neatest
lightest and cheapest. Painted green, with electric welded hoops. The four largest
sizes have drop handles.**HENRY A. DREER, Seeds, Plants, Bulbs, and Supplies, 714 Chestnut Street, Philadelphia, Pa.****GREENHOUSES BUILDING OR CON-
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save you money.**W. H. ERNEST**
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PERFECT PLANTS****The "Presto" Pot Washer**Electric, Water and Belt
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The strong, simple construction of Jacobs Greenhouses enables us to keep costs down to a minimum, without affecting durability or utility. In commercial greenhouse building, especially, where costs must be carefully considered, we honestly believe we can give you a "bigger dollar's worth" than the average. Backed by half a century's experience. Write for estimates—today!

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In any length (one piece) with couplings, 14c. per foot. Remnants 15 to 30 feet, coupled, 9c. per linear foot. Unequalled at the price.



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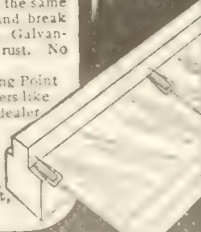
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Dreer's Peerless Glazing Points For Greenhouses

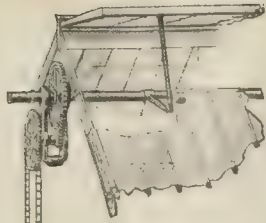
Drive easy and true, because both bevels are on the same side. Can't twist and break the glass in driving. Galvanized and will not rust. No rights or lefts.

The Peerless Glazing Point is patented. No others like it. Order from your dealer or direct from us.

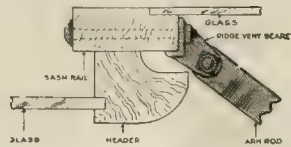
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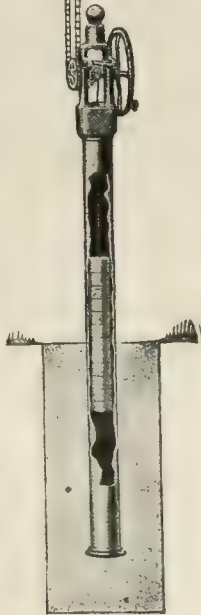
FULL
SIZE
No. 2



This is our new Double Bolted Rod Bearer, which is used on long runs of sash.



This shows how the new Bearer is bolted to the bottom of the sash. Once there, it's there to stay for life.



You have noticed that the hand wheel standard on this one is much smaller than the other. That's because it is intended for short runs to 50 feet, which requires smaller weights to counterbalance.

The Ventilating Gear That Works as Easy as an Even-up Teeter Totter

WELL do I remember when a kid, playing teeter totter, how hard it was to bear down my end of the board when Fatty Jones was on the other end. But when he slid up nearer the log on which the board teetered, I could do it "easy as pie." His weight was then counterbalanced or evened up by mine.

Exactly the same principle is put into operation by our new counterbalanced gear.

The sash might well be "Fatty Jones." The gears, the teeter board. The counterbalanced weights, "me."

When rightly installed and counterbalanced,



this gear runs the sash up as easy as it goes down. No, that's wrong. It goes up just

a little harder than it goes down, so that when the lever lock is released, the sash will close down themselves.

Close down—but not slam down. It will come down itself to within a few inches of the header, and then a half turn of the hand wheel pulls the sash down snug and tight.

It is made for short runs, with rod and arm. And for long runs where the rack and pinion is used.

The counterbalanced gear is now part of our standard greenhouse equipment.



This is the one we use on long runs where the rack and pinion are necessary, and larger weights needed to counterbalance the weight of the sash.

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Vol. XXV
No. 26
JUNE 30
1917

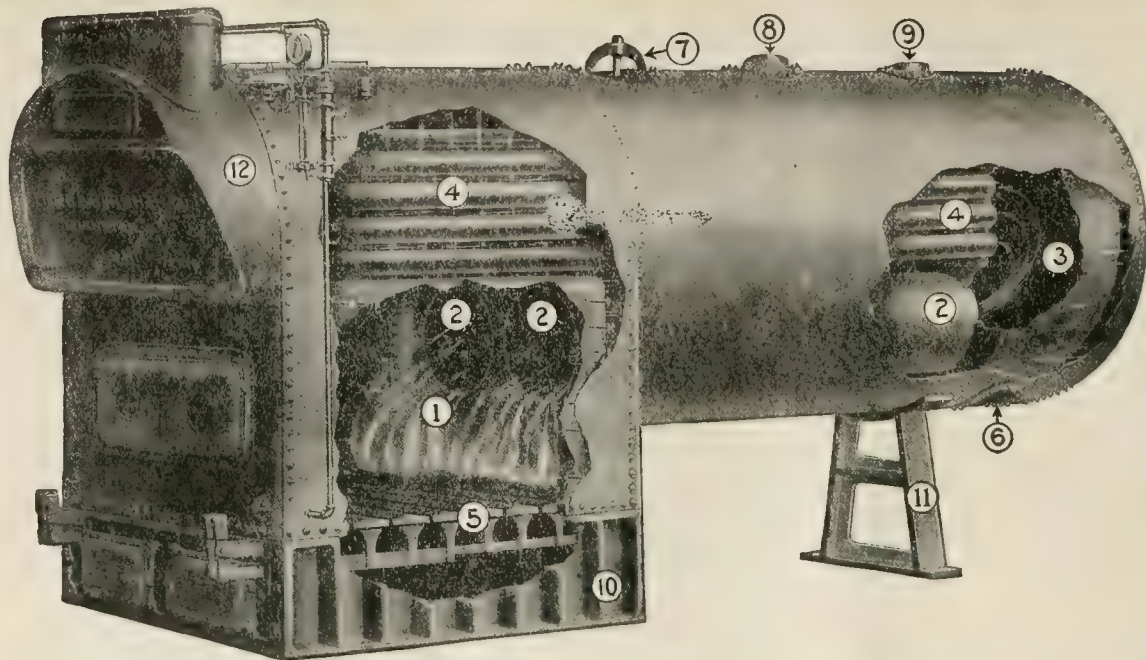
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A Tubular Boiler Made in Our Factory at Geneva, N. Y. for Steam or Hot Water, Either High or Low Pressure

WE say it is new, but it's really in many particulars close to twelve years old.

Over twelve years ago, Mr. Burnham started working out his first tubular boiler, designed especially for greenhouse heating.

Over and over again since then, just as it seemed to the rest of us that at last we had a satisfactory boiler, Mr. Burnham would decide it was not yet worthy of Lord & Burnham's high standard.

Finally, however, one was perfected that not only passed the critical criticisms of all our boiler making experts, but also fully met the exacting requirements of Mr. Burnham.

So, here it is.

It's made for either steam or hot water. Either low or high pressure.

The tubes are guaranteed to be real old-fashioned charcoal iron, which is the same iron from which the railway engine boiler tubes are made.

No bricking in. Not even for the base.

It has many points entirely different from any other tubular boiler.

Points that mean much to you in saving money in setting up expense.

Saving money in fuel needed.

Saving money in operation.

Saving money in repairs.

Whatever boiler you may be thinking of buying, hold up a bit, until you have looked well into this one.

Send for Circular Illustrating and Describing it

Lord & Burnham Co.

Builders of Greenhouses and Conservatories

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CANNAS: 3-in. pot plants, *Feuermere*, *Florence Vaughan*, *Gladiator*, *Maros*, *President Myers*, *Queen Charlotte*, *Richard Wallace*, *Rubin*, *Uncle Sam*, *Mrs. Kate Gray*. 75 cents per doz., \$2.00 per 100, \$25.00 per 1000.

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NEW YORK

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For Every Purpose
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Marantas, *Araucarias*, *Primulas*, *Genistas*, *Lilacs*, *Prunus*, *Box Trees*, *Choice Greenhouse and Bedding Stock* at lowest wholesale prices.
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The Thousand Dollar Trophy Winner



Indian yellow with deeper yellow center, long pointed buds on stiff, erect stems. Plants from 4-in. pots for immediate planting \$2.50 each.

CHARLES H. TOTTY, MADISON, N. J.

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AGERATUM, Blue and White.....	3½-in.	5.00
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Double and Single.....	2¼-in.	3.00
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LEMON VERBENAS.....	2¼-in.	4.00
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SALVIAS	2¼-in.	3.00
SALVIAS	4-in.	6.00
SWAINSONA Alba.....	2¼-in.	4.00
STEVIA Compacta.....	2¼-in.	3.00
TRADESCANTIA	2¼-in.	3.00
VINCA Variegata and Elegans.....	3-in.	6.00
VINCA Variegata and Elegans.....	4-in.	10.00
VINCA Variegata and Elegans.....	2¼-in.	3.00

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NOTES ON CULTURE OF FLORISTS' STOCK

CONDUCTED BY

John J. M. Farrell

Questions by our readers in line with any of the topics presented on this page will be cordially received and promptly answered by Mr. Farrell. Such communications should invariably be addressed to the office of HORTICULTURE.

"If vain our toll, we ought to blame the culture, not the soil."—*Pope*.

Begonias

Flowering begonias can be rooted now with ease and will grow into most desirable size for holiday work. Also the fine foliage varieties can be stocked from leaf cuttings. Those that were propagated in the spring and are now in 4-inch pots should be plunged in a frame, under a light shade in the brightest part of the day. Guard against sudden changes in temperature and draught so as not to induce rust. Rex begonias should be grown in pans, good loam with a third of leaf mold and some sand suiting them. The greatest care should be exercised against overwatering them.

Good Cultivation Essential

A large part of the stock raised by florists is grown into flowering or salable size by being cultivated during the summer in the open field or garden. This phase of gardening presents a multitude of advantages. Keeping the plants free of insects, the soil loose and open and the field clear of weeds by frequent hoeing—rather before than after a rain—proper trimming, stopping and tying where this is needed, and watering, spraying, feeding and mulching when deemed necessary or advisable, is the sum total of good cultivation, the degree of goodness largely depending on how the work is performed. Whether a wheel hoe or the most improved pattern or the old-fashioned hand hoe of undiminishing merit, the implement should always be carefully guided in rows and between plants, so as not to injure the stems or mutilate the branches or to cut away or loosen the roots, or to cover up the smaller ones in a row of young seedlings.

Marguerites for Next Winter

For winter blooming, the old white Paris daisy (*Chrysanthemum frutescens*), has all others beaten to a frazzle, to use a somewhat slangy phrase. Mrs. Sander is good in spring and summer, but will not make the same shapely plant as the older variety. The yellow varieties are harder to grow and rarely seen in shapely plants, excellent though they may be for cutting. Well flowered, bushy marguerites in midwinter are rarely seen in the markets. That they would sell well goes without saying. Root cuttings now from some cut-back plants. Never mind if they are full of flower buds. These can be kept picked off. Cuttings rooted now will make rapid growth and must be kept potted along. Keep flowers which will constantly appear, picked off, and give the plants lots of water. They should then be quite bushy stock in 6-inch pots. When large enough plunge outdoors in a bed of coal ashes in the full sun.

Next Week:—Amaryllis; Cold Storage Lilies; G

Propagating Ficus elastica

Summer is the time par excellence for rooting tops of *Ficus elastica* by the so-called ringing process, which simply consists of cutting the stem partly through, at any desired length, preferably below a leaf. Insert a couple of toothpicks or any small pieces of wood into the incision to keep it open. Then bind sphagnum moss tightly over, above and below the cut made. Keep it constantly moist and to ensure this keep the stock plants in a warm, moist and shaded house, where they can be freely syringed. Crotons, dracaenas, dieffenbachias and other species of plants are among those which can be readily propagated in this way, especially during the summer months. Just as soon as roots are seen peeping through the moss, cut the tops off and pot them. Give them a compost of equal parts of fibrous loam, leaf mold and sand. Keep in a shaded house until they begin to make new roots, when they should be given more light.

Poinsettias

The latter part of December is the natural blooming period for poinsettias, and they will bloom at that time if the cuttings are put into the sand early enough for the plants to become established and form the bract. That would mean any time up to the latter part of September for putting in the cuttings. Poinsettia cuttings put in the sand at once will make plants 2 to 3½ feet high. For small plants for pans, put in the cuttings about July 20. A good crop of cuttings should now be obtainable. Place in the propagating bench as soon as of sufficient length. Trim them up well and do not crowd in the sand. Keep well shaded for about two weeks, when the shade can be reduced some. In three or four weeks they will be ready to pot into 2 or 2½-inch pots. Give a spray overhead about three times a day during bright weather. When potting use a compost of equal parts of new soil, leaf mold, cow manure and sand.

Reminders

Pot on seedling tuberous begonias and gloxinias to flower in August and September.

It is now time to order early *Lilium Harrisii*, freesias, Roman hyacinths and paper whites.

Keep on propagating until you have rooted a sufficient number of everything needed, but make sure: faulty guesses are poor consolers.

Cut spikes of outdoor grown candidum lilies and place them in water just before the first buds open. They will expand as well as on the plant and in a cool room keep much better.

Gloxinias; Propagation; Sweet Peas; Reminders

IMPORTANT NOTICE

Certain changes in service regulations at printing office make it necessary that HORTICULTURE'S forms close several hours earlier than heretofore. Important copy arriving on first mail Thursdays can at times be cared for, but correspondents should plan to get matter to this office by Wednesday hereafter.

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Inconsistencies

We learn from our British trade contemporary of the recent ruling that the Kew Bulletin is not an "essential publication" and the resultant order that its issuance be suspended. All horticulturists who know something of the reliability and great value of the information disseminated through the Kew Bulletin will sincerely regret its enforced discontinuance and will be disposed to agree with our contemporary when it says:

"That the available supply of paper is limited we are well aware, but whilst paper can be found for printing all sorts of trashy piffle, that is neither edifying nor useful, and boardings are plastered with appeals to the public to eat less bread, when either its price or its flavor suffice to ensure as little as possible being consumed, it is false economy to suppress a publication which keeps the record of economic botany, and disseminates information of importance and value to many great industries carried on throughout the British Empire."

The same paper also brings up the issue as to the justice of the raising of great quantities of vegetable plants in the public parks for sale at cheap rates to allotment holders, while nurserymen and market gardeners whose business must suffer from this competition are required to contribute their share in taxes to maintain the parks. We have parallel cases here in this country where the exigencies of war are made the justification for many an assault upon the rights of the individual. Neither ethics nor principle get much consideration in war time, for "policy sits above conscience" and the florist, for example, is expected to patriotically submit his business to immolation as a luxury, while he, also patriotically, must respond generously when called upon to "draw his wallet" for the cause.

Push-cart competition

The authorities of Atlantic City and Paterson, N. J., aided and abetted by the store florists, are on the warpath against the flower peddlers. In Atlantic City these include many farmers and truck dealers who are accustomed to do quite a business in wild flowers and garden bloom on the strength of their license to peddle food stuff, a privilege which costs them the nominal sum of thirty-five cents a year. They will hereafter be obliged to put up the full price of a vendor's license, thirty-five dollars, if they continue to sell flowers. In Paterson the grievance of the florists is the old, old one, protesting the hurtful competition of men who pay no rent or taxes and employ no help. The two widely distinct view-points from which the peddling of surplus flowers at cheap prices may be considered are sufficiently apparent, we presume, to all who read HORTICULTURE. The itinerant dealer surely serves a useful and even beneficent purpose as a medium for getting into the hands of the masses the accumulations of otherwise unsalable flowers that are thrown upon the wholesale markets of the large cities from time to time. The regular store florists have neither the facilities nor the disposition to tackle the problem, but still it is manifestly unfair to these legitimate business firms who pay high rents and taxes and employ labor the year round to allow the push-cart man to roam freely about the business section where they are located. The Paterson florists make what appears to be a strong point for their contention in showing that a suitable place has been provided for the push-cart element in the municipal markets so that neither the public who want cheap flowers nor the growers who produce them need to suffer.

A far-reaching measure

On June 12, a bill was introduced in the U. S. Senate by Mr. Fletcher and after its second reading was referred to the Committee on Commerce. The document is entitled "A Bill to define, regulate and punish trading with the enemy, and for other purposes," and is known as the "Trading with the enemy Act." Its provisions if adopted and carried out will practically put an end until the close of the war of the business of the horticultural importers if we interpret it rightly. Our readers who may be interested should write to their respective congressmen for a copy of the bill which is much too comprehensive in its details for any attempt at analysis in the limited space at our disposal. Its effect, if passed in its present form, upon the florist, nursery and seed business cannot fail to be very far-reaching.

CLUBS AND SOCIETIES

AMERICAN ASSOCIATION OF NURSERYMEN.

As HORTICULTURE goes to press the American Association of Nurserymen is holding its annual convention in Philadelphia with a very large attendance from all all sections of the country. It is thoroughly a business gathering with a lengthy and comprehensive program to keep it down to work for the three days specified in the call. There was a preliminary session of the executive committee at the Adelphia Hotel on Monday, at which problems of transportation, distribution, legislation and other important matters that concern the trade were discussed. In line with recent suggestions in HORTICULTURE it is declared that the convention will not end until the association has sent a message to the American people that by planting fruit and nut trees even in back yards the food supply of the nation can be vastly increased. Robert Pyle, of West Grove, Pa., has prepared a schedule for publication throughout the country which shows how readily fruit and nut trees can be cultivated in small areas.

LANCASTER COUNTY FLORISTS' ASSOCIATION.

The regular meeting of this club was not a meeting; it was a picnic, held at Hershey, Pa. Mr. Haverstack, manager of the greenhouses and grounds, piloted the visitors over the estate and through the greenhouses and gave them a social half hour in the Italian gardens, after which they enjoyed the many special features of the Hershey Amusement Park. That the club turned out loyally is shown by the fact that there were about 125 in attendance. Three machines came from Chester County bringing Mr. and Mrs. Ed. Marshall, Sr. and Jr., Mr. and Mrs. Percy Bernard and Mr. Bernard, Jr., Mr. and Mrs. Bailey and others. One machine from Harrisburg and Mr. and Mrs. Rupp from Shiremanstown, also T. J. Nolan and Mr. Coperthwaith of the King Construction Co. and Dennis Connor of the Lord & Burnham Co.

At three p. m. the children's games started. One thing worthy of special mention was a blindfold test to reach a certain point sixty feet away, between Chas. B. Herr of Strasburg and Rutter Hess of Gap. Mr. Herr reached the goal with 99 per cent. efficiency.

INTERNATIONAL FLOWER SHOW.

The preliminary schedule of the International Flow Show to be held at Grand Central Palace, New York city, March 14 to 21, 1918, under the auspices of the Horticultural Society of New York and the New York Florists' Club has been sent out by Secretary John Young. The usual extensive lists of valuable prizes are offered in both private and commercial sections. Complete schedule will be issued later. For copies of schedule, or information apply to John Young, secretary, 53 West 28th street, New York. Telephone, 4336 Farragut.

AMERICAN PEONY SOCIETY

James Boyd.

James Boyd, president-elect of the American Peony Society, is an amateur gardener of the enthusiastic type, which is not now so common as it was thirty or forty years ago before the advent of the auto and the racing yacht. He is a Boston boy and before coming to Philadelphia he probably imbibed some of the horticultural enthusiasm so common to all natives of the Hub. He is now one of Philadelphia's most prominent business men being president of the James Boyd & Bro. Company, mfrs. of fire extinguishing apparatus. His private residence is at Haverford, Pa., where he has lived for some thirty years and become famous near and far for his gardens



JAMES BOYD

President-elect American Peony Society.

and grounds. He is an all 'round plantsman, knowing and loving all the beautiful things and has a most interesting and varied collection. Of late years his enthusiasm has been particularly centered on the iris, the lilac and the peony. Of the latter he has no less than 250 named varieties, some of his recent additions costing fifty dollars a root. His exhibit at the recent peony show in Philadelphia was the wonder and admiration of all beholders. I have had the pleasure of Mr. Boyd's acquaintance ever since I came to Philadelphia thirty years ago and he is still the same genial, kindly, simple-souled gentleman and takes a keen delight in showing and talking of his treasures to his neighbors and to visitors from near and far. The Peony Society has honored itself as well as honoring Mr. Boyd by making him its president.

GEORGE C. WATSON.

AMERICAN SWEET PEA SOCIETY.

The annual meeting of the American Sweet Pea Society will open in Boston, Mass., on July 7, 1917. The program of business is as follows:

Saturday, July 7, 3 p. m.—Address of Welcome, by President Saltonstall of the Massachusetts Horticultural Society.

President Kerr's address. Secretary's report. Treasurer's report.

Reports on the trial grounds at Cornell University, Ithaca, N. Y., by Prof. A. C. Beal.

International Garden Club trials.

Nomination of officers for 1918.

Invitations for the next meeting place.

Election of officers.

Vote on the next meeting place.

Good for the society—Addresses and discussions.

Unfinished business. Adjournment.

The Officers of the Society are as follows:

George W. Kerr, president; Edwin Jenkins, vice-president; William Gray, secretary; William Sim, treasurer.

Executive Committee—The above officers and J. Harrison Dick, W. A. Sperling, John H. Stalford.

Nomenclature and Trials Committee—Prof. A. C. Beal, William N. Craig, George W. Kerr, Leonard Barron.

Trial Grounds—Cornell University, Ithaca, N. Y.

Exhibition Committee—James Wheeler, chairman; George W. Kerr, W. A. Sperling, William Sim, John H. Stalford, William Gray.

The Exhibition.

The Exhibition, jointly with the Massachusetts Horticultural Society, will be held in Horticultural Hall, Boston. Intending exhibitors should carefully follow the following instructions.

Entries must be made on the entry blanks supplied by the secretary, William Gray, Bellevue avenue, Newport, R. I., and mailed to reach him at Newport on or before Thursday, July 5. Exception—Massachusetts Horticultural Society's classes are under the rules of that society, and entries must be made to William P. Rich, secretary, 300 Massachusetts avenue, Boston, Mass.

Exhibitors will confer a favor by strictly following the above rule. Late entries will be received and space provided for the exhibits at the discretion of the exhibition committee. Exhibitors taking this chance, may address their entries to William Gray, secretary, 300 Massachusetts avenue, Boston, Mass.

Trade exhibitors intending to enter in the American Sweet Pea Society's Gold Medal Class, the Morse Cup Class, or to make a special exhibit should notify James Wheeler, Natlck, Mass., one week previous to the opening of the exhibition, stating the amount of space they intend to fill.

Entry is free to members of the American Sweet Pea Society. Non-members competing in Sections A, B,

C. D. must accompany their entries with an entry fee of \$2.

All exhibits must be staged by 12 o'clock on Saturday, July 7.

Exhibits sent express prepaid will be taken care of and staged in the absence of the exhibitor, providing entry has been duly made and notice has been given of intention to ship to the secretary. All such exhibits should be marked: American Sweet Pea Society's Exhibition, c/o William Gray, Secretary, Horticultural Hall, Boston, Mass., with the name and address of the sender.

The schedule of prizes is well filled with specials and should bring out a record show. Copies may be had on application to Secretary William Gray.

NEWPORT SHOW POSTPONED.

The first joint exhibition of the Garden Association and the Newport Horticultural Society which was to have been held this week has been postponed till July 3 and 4, and will take place in the Lafayette Theatre. It has been decided to turn over the premium money to the Red Cross this year.

At the June meeting of the Nassau County (N. Y.) Horticultural Society in Glen Cove on Wednesday, June 13th, awards for exhibits were as follows: 1st, Thos. Hendersen, asparagus; Harry Goodband for cauliflower; John W. Everett for gladioli, also cultural certificate for Calceolaria Stewartii. Honorable mention to J. Mastroiana for a collection of vegetables. Geo. Ford was appointed manager of the Rose Show. It was unanimously agreed to give the gross receipts of the Dahlia Show on Oct. 9th and the Chrysanthemum Show Nov. 1st and 2nd to the American Red Cross, all intending exhibitors to compete for prize cards only; no money prizes will be given. Competition for our next meeting, Wednesday, July 11th will be on 12 sprays of sweet peas, white, 12 pink and 12 any other color.

HARRY GOODBAND, Cor. Secy.

NOTES AT DEDHAM.

We notice that it is coming to be more and more the practice of trade visitors in Boston to go out to look over the stock in the Farquhar nurseries at Dedham, and in the season of the blooming of the Regal Lily this also means a stop at Roslindale where Messrs. Farquhar are growing this remarkable lily. One thing which has made the Dedham place so interesting is that there can be seen a full stock of all the Wilson collections from China and these plants are now old enough to show their permanent characteristics.

The ranges of small houses erected last year and the year before are more than fulfilling Mr. Farquhar's hopes. For economy, convenience and the great variety of uses to which they are adapted these plant houses are well worth examining in these times of high fuel cost. A number of these houses are now devoted to conifer propagation by cuttings and by seed. The outlook for the resumption in the immediate future—or ever again—of business with old European sources of conifer supply is not bright and Messrs. Farquhar plan to stock up

RED CROSS DAY AT PALMER'S, BUFFALO, N. Y.



Buffalo was allotted \$1,500,000 as its quota, in the National Red Cross Campaign; due to the co-operation of business men, the fund approached the \$2,000,000 mark. The active work of W. J. Palmer & Son was a feature of the campaign of lively interest. The picture shows the front of one of the Palmer flower shops with girls in Red Cross uniforms, selling flowers for personal wear, in behalf of the Red Cross. The entire proceeds of the sidewalk sales went into the fund.

Bankers and longshoremen alike, wore the carnations from Palmer's,

showing that they each did a bit more for the Mercy Campaign. The campaign finished Monday night with a jollification dinner held at Hotel Statler, 400 workers being seated. It was Palmer's intention to give each worker a carnation, so the four nurses were furnished with a good armfull of carnations and passing through the banquet room, they were rewarded with many a one-dollar bill. The final stunt was by Miss Mildred Lowe, Palmer's office girl who mounted a chair and auctioned a bunch of carnations, which brought \$150.00. The total collections amounted to \$465.66.

heavily on home-grown material in the selection of which the Wilson novelties will hold an important place.

The avenue of overarching Buddleias in the large house which made such a sensation last fall will be repeated this season. A row has been placed on either side of tall standards of *B. Farquhari* and *B. asiatica* and it will make a rare picture.

PITTSBURGH.

Julius W. Ludwig is detained from business owing to an abscess on the jaw, resulting from some dental trouble.

Mrs. Rosena Rusille was in town early in the week on a purchasing trip for her sister, Miss Emma DeBorth, the Ellwood City florist.

Theodore P. Langhans, who was appointed to solicit about 150 florists of Pittsburgh and vicinity in the interest of Red Cross Week, is meeting with great success.

Ralph W. Pinner, manager of the landscape department of the A. W. Smith Company, has been awarded the contract for planning and planting a three pool rock garden for J. French Miller at Franklin, Pa.

Dr. Otto E. Jennings, professor of botany in the University of Pittsburgh, and his assistant, Mrs. Jennings, left on last Monday for a general plant survey and the collection of

specimens for the Carnegie Institute Museum of which he is curator.

John Greeney of Randolph & McClements' salesforce, recently enlisted and expects to be called shortly for war time service. Miss Eliza McKinley of the same firm, has returned after a two weeks absence owing to the serious illness of her father, W. O. McKinley.

Sergeant H. Milton Griffith, proprietor of the Monesson Flower Shop, will leave this week for service with the First Field Artillery, N. G. P., leaving his business in charge of his brother, Charles F. Griffith. Mr. Griffith who was actively engaged in border warfare last year, is the brother of N. Shelby Griffith, manager of both the Arcadia and the Fox Flower Shops of this city.

The marriage of Samuel McClements, Jr., son of Mr. and Mrs. Samuel McClements, to Miss Beulah Munhall, on Wednesday of last week was a beautiful appointed home ceremony. The floral decorations were especially attractive, the bridal table being arranged to form a hollow square in the center of which played a sparkling fountain and decorated with crotons larkspur, iris, peonies and hydrangeas. After a motor trip through Virginia, young Mrs. McClements will live with her mother during Mr. McClements service in the National coast defense into which he recently enlisted.

During Recess

COMMODORE WESTCOTT ENTER-TAINS.

June 22nd Commodore John Westcott, of Philadelphia and Waretown, N. J., entertained a party of his old friends at his farm house and ocean bungalow on Barnegat Bay. His welcome was as cordial and hearty as ever and all hands enjoyed themselves exceedingly. Some of the party had to return home the same day but most of them stayed over for a couple of days more to further enjoy the sailing, the fishing, the ozone and the good company.

Bos'n Trainer and Cruiser McTavish fame was on hand and again distinguished himself this time by presenting the Commodore with a new flag for the front pole of the bungalow—a big and handsome banner which after appropriate speeches and ceremonies was run up and now floats proudly to the breeze.

Later in the proceedings of the day came another flag ceremony—this time for the inside of the bungalow—two handsome silk flags being presented by Comrad Vaughan of Chicago. Robert Craig made the presentation speech in his usual eloquent style and W. F. Gude of Washington—as befitted the National emblem—proudly handed the flowing banners into the Commodore's hands. Their resting place is cross-ways over the door of the dining room where all may salute as they enter.

Coast guard maps officially prepared by the department at Washington were another of the surprises of the occasion. These came from George W. Hess, superintendent of the Botanic Gardens, and now adorn the walls of the main entrance.

The weather was fine, the country round about never looked more green, fresh, blooming and beautiful. The Commodore despite seventy-seven summers and winters never looked better—gay and frisky as a June bride. The new pool table presented last year was well patronized and the pinochle artists were thereby left in peace to enjoy their quieter but no less exciting pastime. The herd of guernseys with the old bull strutting ahead made a fitting background for the maritime delights with the famous old lighthouse looming on the sky line five miles across the bay.

Capt. Stackhouse has a remodeled schooner with a fine new cabin and a new engine. So she isn't a schooner any more but the admirers of the "Geneva" say she has the finest "sea legs" of any boat that ever listened to the groans of the whistling buoy ten miles out to sea. How a groan can be a whistle and how a boat can have legs or how the wind can "back-in" I leave to wiser artists in the language than yours truly. But one thing we escaped this time. There was no snoring in Deutsch as our good friend W. Kleinheinz was not on hand to oblige.

We all had a happy time and wish the Commodore long life, health and happiness.
G. C. WATSON.

Holland Shipments of Nursery Stock

Will probably come through this coming season

DON'T HOLD BACK!

Your order should be placed with KOSTER & CO., who will be in a position to make deliveries if deliveries are possible.

We grow and use first-class stock only. We pack properly. The cases used are dry when packed and are delivered to the steamship company in that condition. These are the principal items to insure arrival of goods in perfect condition.

Should you be interested in our stock, such as RHODODENDRONS, AZALEAS, BOXWOODS, EVERGREENS, PEONIES and ROSES, favor us by having us mail you a copy of our catalogue. All inquiries will be gladly answered.

KOSTER & COMPANY

Hollandia Nurseries

BOSKOP

HOLLAND

U. S. Representative, A. J. PANNEVIS, Flushing, N. Y.

DENNIS AT WARETOWN.

(A soliloquy—With apologies to Aristophanes, B. C. 444.)

How many things there are to cross and vex me,
My comforts I compute at four precisely.
My griefs and miseries at a hundred thousand,
Let's see what there has happened to re-
rejoice me.
With any kind of joyfulness.
Come—in the first place I put down two dollars
Which Kifty did dig up again and re-
funded
Then I rejoiced I loved the ginks for that
'Twas nobly done for the interests of
surcease.
But again I suffered cruelly in the next
(draw,
A tragical disappointment. There was I
Gaping to hear old Watsonus—when the
herald
Called out "Trainorus bring your winners
forward."
Imagine what my feeling must have been
But then Kifttheus coming forward
And singing his hilarious melody,
But then came Bo's'n with his music truly
That turned me sick and killed me very
nearly
And never in my lifetime, man nor boy
Was I so vexed as at this present moment
To see the chairs at this time of the
morning
Quite empty when the assembly should be
full
I think and think I don't know what to
think,
I draw conclusions and comparisons,
I ponder, I reflect, I pinch my nose;
I'm out three dollars thirty-five,
But wait until tomorrow! Wow!

ST. LOUIS.

The next thing on the program is the annual Florist Club picnic in July at Ramona Park.

One of St. Louis' hustlers is Tom Carr, the Union Market florist. He "gets his" if there is anything in sight.

Joseph Wors, son of C. W. Wors, left St. Louis with the other naval recruits for training quarters at Newport on Monday night, June 25.

Fred Foster has purchased the lease of the greenhouses of John Benson,

4025 Marcus avenue. Frank Bucksart will have charge of the greenhouses. Ferns and bedding stock will be raised.

PHILADELPHIA.

Joseph Hurley, late of Haverford, has moved to Glen Riddle.

The Leo Niessen Co. announce 4.30 p. m. as their closing hour for the summer.

Mr. and Mrs. John C. Bodger, of Los Angeles, Cal., spent the week end at Pine Tree Farm, the country residence of Howard M. Earl, near Doylestown.

Alberger, Meehan, Barrett, Westcott, Lang and others in the trade contributed generously towards the success of the Roxborough flower show on June 16.

The Pennock-Meehan Co. will go on their summer closing schedule, July 2nd. Four p. m. daily; Saturdays one p. m.; until further notice. Closed all day July 4th.

Abram L. Pennock was taken home to Lansdowne from the Presbyterian Hospital Saturday. He had been there three days. His condition as reported today (Tuesday) is still very serious.

John Burton went under an appendicitis operation at St. Timothy's Hospital on the 22nd inst. On the 25th his son George reported everything all right so we are all breathing easier.

The regular monthly meeting of the Florists' Club will be held in the Club Room on Tuesday, July 3rd, 1917, at 8 p. m. The discussion at this meeting will be pertaining to the future of the club, in the event of Horticultural Hall being sold. The club room committee will make a report, giving their recommendations upon the above subject.

OBITUARY.

Henry Fischer.

Henry Fischer, a florist of Stratford, Conn., died on Tuesday, June 19.

Mrs. Carrie W. Harrison.

A note has just been received from Rev. C. S. Harrison, York, Neb., announcing the passing away on the morning of June 20, of Mrs. Carrie W. Harrison, after an illness of ten months. She was a native of Quincy, Mass.

James Ivera Donlan.

James I. Donlan died on Wednesday morning, June 27, at five o'clock, at the Manhattan State Hospital on Ward's Island. He had been ill for about a week. Particulars of his illness are lacking except that he was picked up in the street unconscious last Thursday. Mr. Donlan was well known by the florist trade of the greater part of the country. He was unique as a character. As a floral decorator he stood very high. As a writer he was clever, caustic, and witty withall. Much of his time of late years has been taken up with Irish political topics and agitation.

Levi De Freest.

Levi De Freest died at the home of his daughter, Mrs. Henry B. Becker, 110 Pine Woods avenue, Troy, N. Y., on Saturday, June 16. Mr. De Freest was born at Kinderhook, N. Y., eighty years ago. He was a resident of the East Side for forty-eight years. He was a well known florist of this section for a number of years. He was a graduate of Williams College, Williamstown, Mass. He is survived by three children, Mrs. Ada M. Becker of Troy, John M. De Freest of Plant City, Florida, Mrs. Sarah L. Towsley of Williamstown, Mass., and three grandchildren and one great grandchild.

BEDDING PLANTS

RICARD, POITEVINE and S. A. NUTT
GERANIUMS, 3½-in. pots, \$6.00 per 100.
SWEET ALYSSUM, 2¼-in. pots, \$2.00 per 100.

200 KING HUMBERT CANNAS, 4-in. pots,
\$6.00 per 100.

COLEUS VERSCHAFFELTH and GOLD-
EN BEDDER, 2¼-in. pots, \$3.00 per 100.

2,000 BOSTON FERNS, 2¼-in. pots, \$4.00
per 100.

FUCHSIAS, 3½-in. pots, \$6.00 per 100.

Cash with Order

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HOLLYHOCKS, AQUILEGIA, GAILLARDIA,
BOLTONIA-WHITE-PINK, FOX-
GLOVE, PLATYCODON, STOKESIA, RUD-
BECKIA PURPUREA.

4-inch pot grown at \$8.00 per 100

BLEEDING HEARTS, ORIENTAL POP-
PIES, HARDY SWEET PEAS,
4-inch pot grown at \$10.00 per 100

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plants we respectfully solicit your inquiries
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MRS. J. A. PETERSON

2 1-4 inch pots, \$20 per 100, \$180 per 1000

LORRAINE

2 1-4 inch pots, \$14 per 100, \$120 per 1000

CYCLAMEN

Finest strain, separate colors or mixed, extra strong

3 inch pots, \$10 per 100, \$90 per 1000

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RAFFIA, 4 Standard Brands
PALM SEEDS
AUSTRALIAN GRASS SEEDS

Correspondence invited

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AZALEAS, CONIFERS, CLEMATIS,
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BACEOUS PLANTS.

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Hollies and a Complete Line of Coniferous
Evergreens.

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Evergreen Specialists. Largest Growers in
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The French varieties and Otakaa, in com-
mon butter tubs, \$2.50 and \$3.00 each
Otakaa, large specimens in half-barrels,
\$10.00 to \$15.00 each.

F. R. PIERSON, Tarrytown, N. Y.

SEED TRADE

SEED TRADE CONVENTION.

The American Seed Trade Association and the Wholesale Grass Seed Dealers' Association convened their annual meetings at Detroit, Mich., during the week of June 18th, with headquarters at Hotel Ponchartrain and the largest attendance on record. The address by President Kirby B. White of the American Seed Trade Association appeared in our issue of last week. Secretary-Treasurer C. E. Kendel presented the following financial report:

Treasurer's Report.

RECEIPTS.

Balance on hand, reported June, 1916	\$1,386.73
Initiation fees	500.00
Dues for the year	2,865.00
Contributions	100.00
Interest fund	58.72
	\$4,910.45

EXPENDITURES.

Stenographer's services	\$120.50
Secretary's salary	400.00
Counsel's retainer	1,625.00
Counsel's fees and expenses	682.21
Retiring President's expenses	50.00
Legislative Committee expenses	25.66
Initiation fees returned	25.00
League dues	25.00
Printing annual report	276.85
Other printing	48.75
Cuts for report	3.85
Stamps and stationery	45.00
Badges	46.75
Incidentals	8.74
	\$3,383.31
Balance on hand	1,527.14
	\$4,910.45

Seed Trade Association officers were elected as follows: President, F. W. Bolgiano, Washington, D. C.; 1st vice-president, W. G. Scarlett, Baltimore, Md.; 2nd vice-president, David Burpee, Philadelphia; secretary-treasurer, C. E. Kendel, Cleveland, O.; assistant secretary-treasurer, *cum privilegio*, Kirby B. White, Detroit, Mich.; Counsel, Curtis Nye Smith, Boston, Mass.

The records showed a membership strength of 196, this including three honorary memberships.

Many vital topics came up for dis-

cussion and adjustment, some of which were the consideration of trade rules, the submission of controversies of seedsmen to a committee of arbitration, the adoption of a resolution calling for the procurement of reliable crop reports of vegetable seeds, current prices and the dissemination of such information to members through the official bulletins of the association.

One of the most satisfactory things done at the convention from the point of view of every member was the adoption of resolutions by both associations advising the President of the United States and the Secretary of Agriculture that the Associations tendered the government their heartiest support in the present war emergency in the way of men and means, and that the seed trade as a class did not ask for exemption from military duty if called upon.

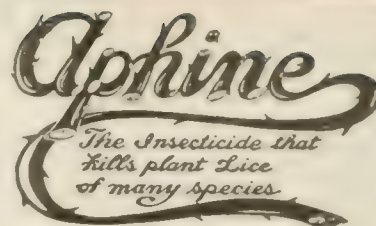
The social features were extraordinarily interesting and pleasant. D. M. Ferry & Company certainly gave the seed trade an entertainment such as rarely if ever been given at any of the conventions. The entertainment consisted of receptions at the homes of Len Bowen, president of D. M. Ferry & Co., and Capt. Ferry, treasurer of D. M. Ferry & Co.; a boat ride on the lake with a splendid banquet on board, music, addresses and ample opportunity for members of the seed trade to visit with each other. Another form of entertainment was an automobile ride around the city and its suburbs. The last day of the convention was taken up by a visit of the association to the seed trial farms of D. M. Ferry & Co., at Oakview, twenty-two miles from Detroit. Special cars were provided. A unique basket lunch with all the "trimmings," music, fancy dancing by artists, and other specialties were thoroughly enjoyed. Automobiles were at the disposal of members to go all over the seven-hundred-acre farm; in fact everything was done for the entertainment and interest of the guests. All the arrangements for this day were under the charge of Theodore Cobb, representative of D. M. Ferry & Co.

The Wholesale Grass Seed Dealers re-elected their former officers, viz: President, A. E. Reynolds, Crawfordsville, Ind.; vice-president, C. C. Masie, Minneapolis, Minn.; secretary-treasurer, Wm. R. Jossman, Detroit, Mich.; counsel, Curtis Nye Smith, Boston.

The Caughey-Jossman Company entertained the members of the Wholesale Grass Seed Dealers' Association one evening at Lakeside Inn with a dinner and a trolley car ride in a very happy manner. The event was delightful and enjoyed to the limit. An invitation was extended to meet at Louisville, Ky., next year.

F. W. BOLGIANO.

F. W. Bolgiano, president-elect of the American Seed Trade Association started in business at the age of 17 as a florist at Waverly, Baltimore, Co., Md. After two years he entered the establishment of J. Bolgiano & Son, Baltimore, Md., where he remained five years. He then opened a business place in Washington, D. C., where he conducted a retail seed and florist business, numbering among his patrons at various times, three Vice-



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A spray remedy for green, black, white fly, thrips and soft scale.
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For mildew, rust and other blights affecting cereals, fruits and vegetables.
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For eel worms, angle worms and other worms working in the soil.
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Non-poisonous and harmless to user and plant. Leading Seedsmen and Florists have used it with wonderful results.

Destroys Lice in Poultry Houses, Fleas on Dogs and all Domestic Pets. Excellent as a wash for dogs and other animals. Relieves mange. Dilute with water 30 to 50 parts.

1/2 Pint, 25c.; Pint, 40c.; Quart, 75c.; Gallon, \$1.25; 5 Gallon Can, \$9; 10 Gallon Can, \$17.50.
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NICOTINE MFG. CO.
ST. LOUIS

Presidents, a vast number of Senators and Congressmen and society leaders, also Chief Justice Fuller and family whom he remembers as one of the great men of the times.

In 1899 his business in the seed line became so large that he retired from the florist part of it and gave his entire time to the seed business, which has steadily grown until at this time it is large and prosperous. He is best known to the trade for the part taken by him in the fight on the first Mann's Pure Seed Law. But for his prompt action it is likely the bill would have been reported for the third reading in the House.

Mr. Bolgiano has been a member of the American Seed Trade Association since 1894 and has been a hard worker, always preferring the interests of the Association beyond all others. His local interests are large and varied, being an executive director in three banks. Numbering among other companies in which he holds an active directorship are an ice cream plant, a cold storage and produce business, an insurance business, a large manufacturing business, and having also a large interest in farming land and farming in his own right. Another interest which he holds very dear to his heart is a Sunday school class of about 150 men, who receive his personal instruction almost every Sunday during the year.

His busy day begins at 5 a. m. and is only thorough when he retires at night. He is a member of the Country Club also the Commercial Club, of Washington, where he delights to entertain the members of the trade when in the city. Being a member of the Board of Trade and Chamber of Commerce, he is in constant touch with the activities of the city. Next to the membership in the American Seed Trade Association, he values his membership in the Rotary Club, in which association he has been an officer.

In 1910 Mr. Bolgiano built a large five-story office and sales building. He has just broken ground for a large warehouse fifty by one hundred and fifty feet. He is married and has one boy, Charles W. Bolgiano, whom he is educating at Cornell with a view of entering into the business. His boy makes yearly trips to the growing points of the West to become familiar with the types and kinds of vegetables, the seeds of which he expects to handle when he enters the business.

In 1914 Mr. Bolgiano organized his business into a corporation under the name of F. W. Bolgiano and Co., Inc.

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	Per 100	Per 1000
7 to 9 in. (300 bulbs to case)...	\$5.50	\$50.00
8 to 9 in. (250 bulbs to case)...	7.00	65.00
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Giant Trimardeau Mixed30 1.25

GIANT SORTS In Separate Colors.

	Trade Pkt.	Oz.
Azure Blue	\$0.40	\$2.25
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Emperor William, blue40	2.25
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Snow Queen, pure white40	2.25
Striped and Mottled40	2.25
White with Eye40	2.25
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ALSO ALL OTHER SEASONABLE SEEDS, BULBS AND SUPPLIES. SEND FOR WHOLESALE CATALOG.

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ture that certain shipments of beans from the Orient known as Burma or Rangoon beans have entered this country from Canada. They closely resemble the ordinary navy bean in appearance but can be distinguished by their light yellowish color and the fine distinct radiating lines passing out from the hilum or eye.

They are pole beans of the Lima type and not suitable for planting in this country, since they are of tropical origin and will not mature in the bean growing states. They are not fit for human food, since they yield hydrocyanic acid in amounts which may be dangerous to the health of the people of the United States.

The port and border laboratories of the Bureau of Chemistry are under instructions to make examinations of all shipments of such beans offered for entry, and to effect their detention.

Governing the Importation of Potatoes into the United States permits, free of any restrictions whatsoever under the plant quarantine act of August 20, 1912, the importation of potatoes from the Dominion of Canada and Bermuda into the United States or any of its Territories or Districts, effective on and after July 1, 1917.

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5000, \$27.50 per 10,000; Lath-house grown
Seed, \$2.00 per 1000, \$9.00 per 5000, \$17.50
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SWEET PEA**

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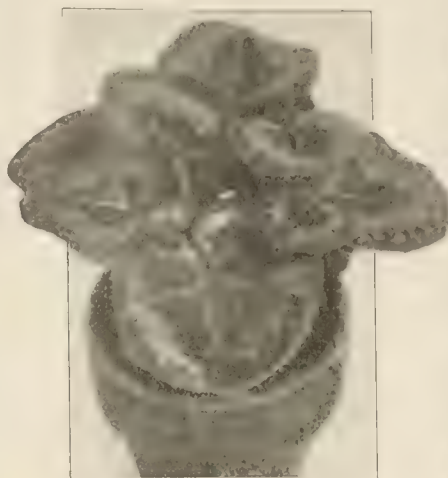
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Of Interest to Retail Florists**NEW FLOWER STORES.**

Eastport, Me.—Sidney A. Farris.
Cleveland, O.—Monarch Florist Co.,
E. C. Prior, Mgr.

New York, N. Y.—Nielsen & Steffen,
30 East 42d street.

San Francisco, Cal.—F. C. Jaeger &
Son, 152 Powell street.

Rochester, Minn.—Queen City
Greenhouse Co., Masonic Temple.

Harrisburg, Pa.—The House of
Flowers, enlarged and remodeled.

NEWS NOTES.

Worcester, Mass.—The rose show
scheduled for Thursday, June 28, has
been put over to July 5.

Williamsport, Pa.—The Garden Club
gave a very interesting peony show at
the store of the Williamsport Floral
Co. on June 15.

West Fitchburg, Mass.—Alfred Wool-
lacott has been made manager of the
flower store, recently purchased by
Ritter, the florist.

Bernardsville, N. J.—S. H. Town-
send, gardener for F. Dryden, is down
with scarlet fever. He is doing very
well and hopes to resume work about
July 4.

Eastport, Me.—Sidney A. Farris, flor-
ists, has had his opening in his new
quarters on Washington street. He
distributed several hundred roses
among lady visitors.

Toronto, Ont.—The exhibition com-
mittee of the Ontario Rose Society has
decided to hold the 1917 rose exhibi-
tion in the Foresters' Hall on College
street during the first week of July.

Marblehead, Mass.—Store, office and
greenhouses of J. B. Reynolds were
flooded with water on Sunday, June
17. The cause assigned was the filling
up of an old waterway which former-
ly drained the property. The boiler
pit was full and had it happened in
cold weather the loss would have been
heavy.

Yonkers, N. Y.—The men connected
with the New York Floral company
held a dinner at the Square Hotel,
June 18, to celebrate the opening of a
new store in Manor House Square.
Those present were Gus Massas and
Arthur Pulas, the proprietors; John
Murphy, Ray Goodrich, John McCar-
thy and A. Bartells.

NEW CORPORATIONS.

Dallas, Tex.—Dallas Nursery Com-
pany, capital stock \$1,000. Incorpora-
tors, Albert H. Rogers, Damon W.
Pitts and E. F. Powell.

Richmond, N. Y.—Richmond Floral
Co., Inc., live stock, agriculture, horti-
culture and garden implements,
\$5,000; N. & L. I. Marmelstein, A. Gott-
lieb, 207 West 27th St.

Send Telegraph, Telephone or Mail orders
for florist service in this vicinity to

Howard & Smith

853 SO. OLIVE ST.

Los Angeles, Calif.

Every Order sure to receive
prompt and careful attention.

JOHN BREITMEYER'S SONS

Cor. Broadway and Gratiot Aves.
DETROIT, MICH.

Artistic Designs . . .
High Grade Cut Blooms

We cover all Michigan points and good
sections of Ohio, Indiana and Canada.
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Association.



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WASHINGTON, D. C.

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22 West 59th St.

Adjoining Plaza Hotel

Best Florists in the States as
References.

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23 STEUBEN ST.

ALBANY, N. Y.

FLOWER DELIVERIES FOR ALBANY
AND VICINITY

Members Florists' Telegraph Delivery

G. E. M. STUMPP

761 Fifth Ave.

NEW YORK CITY

Member Florists' Telegraph Delivery Asso.

YOUNG & NUGENT

42 West 28 Street

New York

Members Florists' Telegraph Delivery

A. T. BUNYARD

NEWPORT, R. I., 145 Bellevue Ave.

Also 413 Madison Ave. at 48th St.
NEW YORK

I GUARANTEE SATISFACTION
MEMBER F. T. D. A.

CHICAGO Send Your Orders to WILLIAM J. SMYTH

Member Florists' Telegraph
Delivery Association

Michigan Ave. at 31st Street

Prompt Auto Delivery
Service

THOS. F. GALVIN
INC.
NEW YORK 561 Fifth Ave.
Vanderbilt Hotel
BOSTON 1 Park Street
799 Boylston Street
Deliveries to Steamers and all Eastern Points

CLEVELAND

A. GRAHAM & SON
5523 Euclid Ave.
Will take good care of your orders
Members of F. T. D. Association.

Orders Filled Day or Night for
CLEVELAND
and State of Ohio
Complete Stock. Regular discount to Trade.
KNOBLE BROS.
1806 W. 25th St., Cleveland, O.
Members Florists' Telegraph Delivery Ass'n.

THE SMITH & FETTERS CO.
735 Euclid Avenue
CLEVELAND, OHIO
Flowers of Every Kind in Season

HESS & SWOBODA
FLORISTS
Telephones 1501 and L 1532.
1415 Farnum St.,
OMAHA, NEB.

Rochester, N. Y.
J. B. KELLER SONS,
FLORISTS
25 Clinton Avenue, N.
Rochester Phone 306. Long Dist. Bell Phone 2780
Members Florists' Telegraph Delivery

S. A. ANDERSON
440 Main St., Buffalo, N. Y.
ANDERSON service means fresh, sturdy
Stock and prompt deliveries in **BUFFALO,**
LOCKPORT, NIAGARA FALLS and
WESTERN NEW YORK
Members of Florists' Telegraph Delivery.

HIGH GRADE PLANTS
For Retail Stores a Specialty
ASK FOR LIST

THOMAS ROLAND, Nahant, Mass.
WORCESTER, MASS.
Randall's Flower Shop
HARRY L. RANDALL, Proprietor.
Mention Florists' Telegraph Association

ROCHESTER, N. Y.

Tom Sullivan, of Geo. B. Hart's, has gone on a farm for the summer on account of ill health.

J. B. Keller had a very attractive window with a large cross of red carnations in a huge gilt frame. The foreground of the window was decorated with oriental poppies and red carnations.

The Florists' Association has gone on record as favoring means to keep dogs and thieves from gardens. It is suggested that owners of canines co-operate with garden owners in seeing that their pets do not run loose in neighborhoods where there are gardens.

George Boucher had the decorations for the Red Cross dinner at Convention Hall, June 18th. Fifty tables were in use, the center table the shape of a cross with a fountain in the center banked in red roses. The hall was trimmed with wild Huckleberry branches throughout.

A Peony Show will be held at Convention, Hall June 29th and 30th, under the joint auspices of the Florists' Association and the Red Cross Society and the net proceeds will be turned over to the latter organization. Band concerts and other entertainments will be given. The show will be one of the most brilliant ever staged here. Several large out-of-town growers will exhibit and there will be a large display by the Department of Parks.

BUFFALO.

The big social event of the week in florist circles was the marriage of Mildred Lucille, only daughter of Mr. and Mrs. W. J. Palmer, and Mr. Raymond P. Fowler. The floral decorations were so exceptional that we will let the local newspaper reporter describe them, as follows:

The bridal party descended the stairway and advanced through a bower of June flowers to the conservatory, where the ceremony was solemnized. Snowballs and graceful bridal wreath garlanded the stairway and were caught in big clusters to the newel posts. The flowers curtained the large hall and formed an arch at the entrance to the conservatory. Orchid plants hung from the ceiling, the walls were curtained with smilax and everywhere were the snowy clusters of bowers. A tulle veil fastened with orange blossoms fell to the hem of the Bride's court train and she carried camellias and lilies of the valley showered. The maid of honor carried Ophelia roses and white lilacs. There were two little flower girls, carrying swagger sticks tied with sweetheart roses and showered with ribbon. June flowers in a profusion of coloring adorned the living room, larkspur, delphinium, gladioli and flowering shrubs. The bridal table was adorned with June flowers in the softer French tints in a large-handled basket in the center and individual holders down the table.

Mr. and Mrs. Fowler have left for a motor trip to the Berkshires. Mr. Fowler sails for France the last of the month with the American ambulance corps.

Houston, Tex.—The Cotney Floral Co., has been sold to the Misses Atwood and Fagan.

REUTER'S Members Florists' Telegraph Delivery

STORES IN

New London and Norwich, Conn. and Westerly, R. I.

We cover the territory between
New Haven and Providence
ST. LOUIS, MO.

FRED C. WEBER
4326-28 Olive St.

Member Florists' Telegraph Delivery Association
NOTICE INITIALS. We have one store only

THE J. M. GASSER COMPANY,

CLEVELAND

Euclid Avenue

The Far-Famed Flowers of
TORONTO

Delivered on mail or telegraph order for any occasion, in any part of the Dominion.

JOHN H. DUNLOP
8-10 West Adelaide St. - TORONTO, ONT.

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Flowers or Design Work

DELIVERED IN ALBANY AND VICINITY
ON TELEGRAPHIC ORDER

106 STATE STREET, ALBANY, N. Y.

"THE HOME OF FLOWERS"

The largest cut flower store in America. Orders for the TWIN CITIES and for all Northwestern points given prompt attention

HOLM & OLSON, Incorporated
ST. PAUL, MINN.

The Park Floral Co.
J. A. VALENTINE, Pres.

Members Florists' Telegraph Delivery.

DENVER, COLORADO



KERR ORDERS FOR TEXAS
HOUSTON, TEXAS
The Florist Member F. T. D. Association

NEWS ITEMS FROM EVERYWHERE

BOSTON.

The Boston Flower Exchange bought a \$1,000 Liberty Bond.

Young cabbage plants and pot-grown strawberries are in very active demand here at the present time.

Much interest attaches to the notable exhibition of sweet peas scheduled for July 7 and 8 at Horticultural Hall under the auspices of the American Sweet Pea Society and the Massachusetts Horticultural Society.

Two or three sultry days last week brought out the rhododendrons and other belated spring shrubbery and also on account of their softness due to long continued moist weather, finished them up in ruthless double-quick time.

The peony show at Horticultural Hall, Saturday, June 30, and Sunday, July 1, promises to be a gorgeous affair. Among the notable exhibits will be that of E. J. Shaylor, which will comprise a lot of seedlings of sensational merit.

Holm Lea, the magnificent Brookline estate of Prof. Charles S. Sargent, with its wonderful collection of rare and beautiful plants and shrubs, was thrown open free to the public all day last Sunday. The estate comprises one hundred and eighty acres.

Bedding plant trade is reported generally in this part of the country as having fallen off materially from the average of former years. Of geraniums there is a large overstock including the most popular varieties, of which there are seldom too many and last year there was a great scarcity.

All South Boston is interested in the coming marriage of Martin E. Tuohy, the well known florist of West Broadway, who on account of his extreme popularity has often been referred to as "The Mayor of South Boston," and Miss Alice O'Brien, night chief operator of the Cambridge telephone exchange, which takes place Saturday, June 30, at St. Mary's church, Cambridge.

A correspondent in New York City writes: "I had the privilege of seeing different views of the recent Boston show in Proctor's. This was certainly good publicity. The pictures were very fine. It makes me think of the old days when, if anyone suggested that pictures of a flower show would be shown in a theatre, they would have been confined in the padded cell. I am not exaggerating when I say that these pictures were magnificent."

CHICAGO.

John Walsh of the Chicago Flower Growers' Association left on Saturday for two weeks on a farm.

At the Alpha Floral Co.'s a very appropriate window display this week includes a bride and groom, the former carrying a shower bouquet of lily of the valley.

Walter Young, of C. Young & Sons, St. Louis, Mo., was in Chicago last week, where he was successful in

passing the examination for the aviation corps.

At the Schiller Floral Gift Shop a very neat window is arranged with a background of flags. The vases of flowers on display rest upon a carpet of moss which gives a woodsy effect.

The sale of the peonies from the summer home of Albert E. Cook, at Hinsdale, Ill., is taking place at the Red Cross rooms and the proceeds are used for that society. Other flowers have also been contributed.

Schiller's advertising card has been criticized by State's Attorney Hoyne, who has started a campaign against using the American flag for advertising purposes. A state statute provides for a fine of from \$10 to \$100 or imprisonment for not more than 30 days, or both.

A letter from Rollo Mueller, who recently left Frank Oechslein's, where for a year he has been adding practical experience to his training in the floricultural department of the University of Illinois, says he returned to his home in Wichita, Kas., and has enlisted with the Kansas artillery, to be called into Federal service August 5. Mr. Mueller also announces a life enlistment on the 29th of June when he will be married to Miss McHenry of the same city. Mr. Mueller gives promise of being an honor to the florists profession and declined a very good business opportunity that he might serve his country.

The competition of the department stores, during the summer months particularly, is a topic of local interest and some very good arguments are being heard. The wholesalers as a body have taken no steps because many of them are also growers and they see the subject from two angles. That a great quantity of stock is cleared from the market at these sales needs no telling, nor that it is sold to the big stores cheaper than a florist can buy it in small quantities, but that it tends to cultivate a love of flowers or the habit of buying them, does not seem to the writer at all sure to fol-

low, for the flowers are so often worthless before they are in the hands of the customers, because of the way they are handled on the counters.

NEW YORK.

Chairman Charles Knight says there will be a gorgeous display of gladioli at the July meeting of the New York Florists' Club.

Alfred Fischer, has assumed charge of the florist business conducted by his father, Charles Fischer, who died recently. The greenhouses are located on Prospect near Seventeenth street, Winfield, L. I.

Next Sunday, July 1, will see the inauguration of the all-day Sunday closing by the wholesale florist trade. It is a sane and in all respects a commendable innovation which should have gone into effect long ago.

Secretary Young says that from all accounts reported to his office by traveling men, there will be a splendid S. A. F. convention attendance from all sections of the country and he is satisfied that there will be a very creditable display in the trade exhibit section.

The schedule committee of the National Flower Show met at the office of Secretary John Young last Saturday. Present, Thomas Roland, Nahant, Mass.; Chas. H. Totty, Madison, N. J.; A. Farenwald, Roslyn, Pa., and the Secretary. The result of their deliberations will soon appear in the issuance of a second preliminary schedule.

In the Circuit Court on June 19, the suit of Frederick Meerbott, a Secaucus florist, to recover \$10,000 from the Public Service Gas Company, resulted in the jury in the case bringing in a verdict for six cents for the plaintiff. Meerbott testified that gas leaking from the pipes of the defendant company near his hothouses had injured a large quantity of his plants, and his attempts to grow sweet peas in particular had been failures. Edwin R. Smith appeared for the florist, and Howard MacSherry represented the defendant company.

H. BAYERSDORFER & CO. Manufacturers and Importers

1129 Arch St. PHILADELPHIA, PA.

A Full Line of Bridal Accessories for the June Wedding Decorations

STOCK UP NOW

THE LEADING FLORISTS' SUPPLY HOUSE OF AMERICA

THE REGAL LILY

CUT BLOOMS READY SOON

PATRICK WELCH, 262 Devonshire St.
BOSTON, MASS.

Sole New England Distributor

CLEVELAND.

Frank Friedley of The Friedley Company recently journeyed to Mt. Gilead, Ohio, and left with the Mt. Gilead Pottery Company, a contract for their entire stock of pots, eight or ten carloads in all.

The next regular meeting of the Cleveland Florists' Club will be held on Monday evening, July 2, in the Club Room at the Hollenden Hotel. H. P. Merrick of Lord & Burnham Co., will give a talk on Scientific Greenhouse Planning and Construction, illustrated by numerous stereopticon views.

Knoble Brothers, following their custom of several years past, have taken the entire output of peonies from the Siether Peony Farm. Owing to favorable weather conditions, they have been of exceptional excellence. With the blooming season now at its height, the peony farm is a glorious sight, and worthy of a long jaunt to behold.

The interest stimulated by the talk on orchids given by Joseph Manda at the last meeting of the Florists' Club will result in their more extensive growing upon private estates of Cleveland and vicinity. The talk was enthusiastically received by the members of the Horticultural Society and Garden Clubs who attended at the invitation of the Florists' Club. Their ardor was heartily shared by the large representation of private superintendents and gardeners who form a considerable proportion of the membership of the Florists' Club. Mr. Manda has rendered a distinct service to the horticultural interests of Cleveland by impressing upon greenhouse owners the intense enjoyment which may be derived from the culture of orchids, especially in view of his assurances that the difficulties attendant upon their successful growing have been greatly exaggerated.

Business and recreation were happily combined in a trip to Painesville recently, participated in by Messrs. Brown, McLaughlin and Bartels of the J. M. Gasser Co., and Mr. Darnell, formerly manager of that company. The Corrigan country estate, famed for the beauty of its location and its attractive landscape features was an interesting digression from the main trip. The party was impressed with both the personality and evident capabilities of Mr. Hamilton, the new superintendent who has succeeded Mr. Bause.

Martin Kohankie's nursery was found in its usual high degree of cultivation. Mr. Kohankie, through keeping everlastingly at it, has brought his soil to a state where it is as mellow as ashes. The visitors unanimously voted that his middle name should be "Cultivate."

Merkel Brothers were as busy as ever. Their range of glass was greatly increased in area last year.

A pedometer would have had to work over time to register the mileage covered at the Storrs & Harrison nursery, through which the visitors were conducted by Mr. Schumacher and ex-City Forester John Boddy. Dinner was served at the Willoughby Hotel, F. C. W. Brown acting as host.

S. N. Pentecost, president of the Cleveland Florists' Club, is about to discontinue, temporarily at least, the flower growing industry, of which he

has been proprietor for the last twenty-five years and will take a well deserved recreation period of two years. The probabilities are that he will then erect a modern range of glass upon his farm at Willoughby. The genuineness of Mr. Pentecost's personality, and the high business standard to which he has always adhered, have earned for him a host of friends who extend to him their most sincere wishes for a vacation time which will prove beneficial and thoroughly enjoyable.

Mr. Pentecost's greenhouse property was at the time of the inception of the business, located well into the suburbs of Cleveland but is now too valuable to retain for greenhouse purposes. It has, therefore, been sold and the greenhouses are to be removed at an early date. Much of the material has been purchased by A. C. Fox, treasurer of the Florists' Club, whose store is at St. Clair avenue and 105th street. Mr. Fox proposes to re-erect the greenhouses upon his farm at Richfield. It is his intention to develop this farm into a nursery for trees, shrubs, and perennials. The greenhouses will enable him to supply the continually increasing demand of his store for plants and flowers.

WASHINGTON, D. C.

Among the appointments made by President Wilson of members of the various boards to determine all questions of exemption under the conscription law, is the name of Adolph Gude. Mr. Gude has been assigned to the district in Anacostia.

There is a vacancy in the position of assistant in poisonous plant investigations, male, in the Bureau of Animal Industry; salary \$1,440 per annum. Applicants should apply for Form 1312, stating the title of the examination desired, to the Civil Service Commission in Washington. The examination will be held on July 25.

HOTEL CUMBERLAND

NEW YORK, Broadway at 54th Street



Broadway cars
from Grand
Central Depot

7th Avenue Cars
from Penn'a
Station

New and
Fireproof
Strictly First-Class
Rates Reasonable

Rooms with Adjoining Bath
\$1.50 up

Rooms with Private Bath
\$2.00 up

Suites \$4.00 up

10 Minutes Walk to 40 Theatres

Send for Booklet

HARRY P. STIMSON

Formerly with Hotel Imperial

Only New York Hotel Window-Screened Throughout

R. Lloyd Jenkins, president of the Florists' Club, on Tuesday of last week deserted the ranks of the jolly bachelors and became a benedict, taking as his bride Miss Opie Lois Allen. While it was pretty generally surmised that Mr. Jenkins was going to take this fateful step, because of the fact that he was building a fine new house near the greenhouses in Suitland, Md., in the operation of which he is connected with his father in the firm of C. L. Jenkins & Son, the announcement that the knot has been tied came as a bit of a surprise.

To Leisureland

where woods are cool, streams alluring, vacations ideal. Between New York City (with Albany and Troy the gateways) and

Lake George
The Adirondacks
Lake Champlain
The North and West

The Logical Route is "The Luxurious Way"

Largest and most magnificent river steamships in the world

DAILY SERVICE

Send for free copy of Beautiful "Searchlight Magazine"

HUDSON NAVIGATION COMPANY

Pier 32, North River

New York

"The Searchlight Route"

10,000 BEAUTY ROSE PLANTS

2 1-4 inch \$60.00 per 1000

Special price in quantity

THE LEO NIESSEN CO.

Wholesale Florists

1201-05 Race Street,

PHILADELPHIA, PA.

EDWARD REID WHOLESALE FLORIST

1619 - 21 Ranstead St., Philadelphia, Pa.

CHOICE BEAUTIES, ORCHIDS, VALLEY, ROSES
and all Seasonable Varieties of Cut Flowers

H. M. ROBINSON & CO. BOSTON'S FOREMOST Wholesale and Commission Florists

82 Otis Street, 2 Winthrop Square
BOSTON, MASS.

Telephone 2618-2617-2616, Main.

Wired Toothpicks

Manufactured by

W. J. COWEE, Berlin, N. Y.

10,000...\$2.00. 50,000...\$3.75. Sample free.
For sale by dealers.

E. G. HILL CO.

Wholesale Florists
RICHMOND, IND.

Please mention Horticulture when writing.

MICHIGAN CUT FLOWER EXCHANGE, Inc.

WHOLESALE COMMISSION FLORISTS
Consignments Solicited

Hardy Fancy Fern Our Specialty

264 RANDOLPH ST., DETROIT, MICH.

The House for Quality and Service

ZECH & MANN

We are Wholesale Florists Doing
a Strictly Wholesale Business

30 East Randolph Street, CHICAGO



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Before Looking Elsewhere

Tell Them You Did So And
They'll Reciprocate

POEHLMANN BROS. CO.

Supply of Best Cut Flowers all the Year Around
72-74 EAST RANDOLPH ST., - - - CHICAGO.

If interested, send us your name and address for our weekly price list

WELCH BROS. CO. Wholesale Cut Flower Market

Daily consignments from leading growers Full line of Florists' Supplies Write for quotations before ordering elsewhere

262B DEVONSHIRE ST., BOSTON, MASS.
Telephone, Main 6267-6268

WHOLESALE FLOWER MARKETS — TRADE PRICES — Per 100 TO DEALERS ONLY

	BOSTON June 28		ST. LOUIS June 25		PHILA. June 25	
Roses						
Am. Beauty, Special	20.00	to 25.00	30.00	to 40.00	15.00	to 25.00
" " Fancy and Extra	8.00	to 15.00	20.00	to 25.00	8.00	to 12.00
" " No. 1 and culls	3.00	to 6.00	5.00	to 10.00	3.00	to 5.00
Russell, Euler, Mock	1.00	to 6.00	6.00	to 12.00	3.00	to 10.00
Hadley	1.00	to 10.00	8.00	to 12.50	3.00	to 10.00
Arenberg, Hoosier Beauty	.50	to 4.00				
Ward	.50	to 4.00	2.00	to 6.00	1.00	to 5.00
Killarney, Radiance, Taft	.50	to 4.00	1.00	to 3.00	1.00	to 6.00
Ophelia, Sunburst, Hillingdon	.50	to 5.00	3.00	to 8.00	2.00	to 6.00
Key	.50	to 4.00			3.00	to 10.00
Carnations	.50	to 1.00	1.00	to 1.50	.50	to 2.50
Cattleyas	40.00	to 50.00			30.00	to 50.00
Dendrobium formosum		to 50.00				
Lilies, Longiflorum	1.00	to 4.00		to 8.00	5.00	to 8.00
Lilies, Speciosum						
Lily of the Valley	5.00	to 6.00	4.00	to 5.00	6.00	to 8.00
Snapdragon	1.00	to 3.00	4.00	to 6.00	1.00	to 3.00
Peonies	1.00	to 2.00	3.00	to 4.00	1.00	to 4.00
Gladioli	1.00	to 5.00	4.00	to 6.00	4.00	to 6.00
Calendulas	.50	to 1.00		to 1.00		
Sweet Peas	.25	to .50		to .15	.50	to .75
Marguerites	.50	to 1.00		to .50	.50	to 1.00
Gardenias	10.00	to 25.00				
Adiantum	.50	to 1.00		to 1.00	1.00	to 1.50
Smilax	15.00	to 25.00		to 12.50		to 25.00
Asparagus Plumosus, & Spreng. (100 Bchs.)	20.00	to 25.00	25.00	to 35.00	30.00	to 50.00

WILLIAM F. KASTING Co. Wholesale Florists

568-570 WASHINGTON STREET - BUFFALO, N. Y.

J. A. BUDLONG

184 North Wabash Avenue, CHICAGO

ROSES, VALLEY and
CARNATIONS
A Specialty

WHOLESALE
GROWER of

CUT FLOWERS


Flower Market Reports

BOSTON Evidence of the waning season is seen in the wholesale flower section where activity is light and a distinct falling off in amount of transactions is noted as compared with last week. The great variety of material in sight heretofore is materially reduced and the main contents of the markets comprise roses, carnations, lilies and peonies, the latter being at last the native crop. Carnations are very fine but are hopelessly overstocked, particularly in the white varieties. Sweet peas are at low ebb, between the last of the winter crop and the first of the outdoor product. Peonies are of superb quality but like everything else they bring very small returns.

Very satisfactory conditions have prevailed during the past week, when the month of roses with its commencements and weddings was nearing a close. Business is generally reported to be very good and cool weather has given the florist some excellent stock to work with. Roses may be said to be the real backbone of the business now, as they have been for some time. With the coming of peonies they have usually fallen to second place but this year roses have held first. Local peonies are now at their height and good ones are selling at a moderate price, while the grower who has been unsuccessful in producing good flowers will have very small returns. Carnations are not moving at all well, a situation which unfortunately is not new and many of the carnation growers are getting discouraged. Iris is nearing its close. Many lilies are seen and most of them are moved with little loss. The number of kinds of miscellaneous flowers is narrowing down, calendulas, pansies, and marguerites being most in evidence this week.

CLEVELAND Although the peonies of northern Ohio are of an unusual quality, they have been so retarded by the lateness of the season that the usual supply for Commencement exercises was not available. In addition to the great quantity now on the market, gladioli and outdoor Spanish iris are plentiful, with roses and carnations coming in with the rapidity which is to be expected at this time of year.

The absence of a marked demand for any one thing in particular makes a dull market and that is the condition this week. School closing is playing a very trifling part this year, less than usual. There is a plenteous supply of roses, carnations, outdoor stock and warm weather. To particularize, carnations are firmer in price than last week and Beauties because of a falling off in quantity and their better keeping qualities are doing fairly well. The smaller roses are coming in freely and are showing the effect of summer weather. Mrs. Russell has the lead as a seller, when good. All of the red roses blow out so



DELPHINIUM

In dark and light blues, mostly like the Belladonna shade. Wonderfully attractive in any kind of work.

\$4.00 and \$5.00 per 100

RAMBLER SPRAYS

Dorothy Perkins, Excelsa, American Pillar, Etc.

\$5.00 to \$20.00 per 100 sprays

During July and August we will close daily 4 P. M. Saturdays 1 P. M. Closed all day July 4th.

S. S. PENNOCK-MEEHAN CO.

THE Wholesale Florists of **PHILADELPHIA**

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117 W. 28th St.

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		TRADE PRICES—Per 100 TO DEALERS ONLY			
		CINCINNATI June 25	CHICAGO June 25	BUFFALO June 4	PITTSBURG June 19
Roses					
Am. Beauty, Special.....	25.00 to 30.00	20.00 to 25.00	20.00 to 25.00	25.00 to 30.00	25.00 to 30.00
" " Fancy and Extra.....	15.00 to 25.00	15.00 to 20.00	15.00 to 20.00	15.00 to 20.00	15.00 to 20.00
" " No. 1 and culls.....	4.00 to 10.00	4.00 to 10.00	4.00 to 10.00	4.00 to 10.00	4.00 to 10.00
Russell, Euler, Mock.....	5.00 to 10.00	3.00 to 10.00	3.00 to 10.00	3.00 to 10.00	3.00 to 10.00
Hadley.....	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00
Arenberg, Hoosier Beauty.....	4.00 to 10.00	4.00 to 10.00	4.00 to 10.00	4.00 to 10.00	4.00 to 10.00
Ward.....	3.00 to 6.00	3.00 to 6.00	3.00 to 6.00	3.00 to 6.00	3.00 to 6.00
Killarney, Radiance, Taft.....	3.00 to 8.00	3.00 to 8.00	3.00 to 8.00	3.00 to 8.00	3.00 to 8.00
Opheia, Sunburst, Hillingdon.....	3.00 to 10.00	3.00 to 10.00	3.00 to 10.00	3.00 to 10.00	3.00 to 10.00
Key.....	3.00 to 10.00	3.00 to 10.00	3.00 to 10.00	3.00 to 10.00	3.00 to 10.00
Carnations					
Cattleyas.....	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
Dendrobium formosum.....	75.00 to 100.00	75.00 to 100.00	75.00 to 100.00	75.00 to 100.00	75.00 to 100.00
Lilies, Longiflorum.....	10.00 to 12.50	10.00 to 12.50	10.00 to 12.50	10.00 to 12.50	10.00 to 12.50
Lilies, Speciosum.....	10.00 to 12.50	10.00 to 12.50	10.00 to 12.50	10.00 to 12.50	10.00 to 12.50
Lily of the Valley.....	4.00 to 6.00	4.00 to 6.00	4.00 to 6.00	4.00 to 6.00	4.00 to 6.00
Snaptagon.....	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
Peonies.....	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Gladioli.....	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
Calendulas.....	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
Sweet Peas.....	.35 to .50	.35 to .50	.35 to .50	.35 to .50	.35 to .50
Marguerites.....	.50 to 1.00	.50 to 1.00	.50 to 1.00	.50 to 1.00	.50 to 1.00
Gardenias.....	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Adiantum.....	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Smilax.....	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Asparagus Plu. & Spreng. (100 Bhs.)	25.00 to 35.00	25.00 to 35.00	25.00 to 35.00	25.00 to 35.00	25.00 to 35.00

quickly that they are neglected. Outdoor "Jacks" have been in heavy supply but are now on the wane. Lily of the valley is in limited supply and holds up in price. Cattleyas—when choice—generally find buyers at good figures. There is no scarcity of lilies and it is not possible to clean them up every day. Cold storage peonies are very much in evidence and although the quality of these flowers is very fine the prices realized are very low. The street and the business reminds one of a day in August.

PHILADELPHIA The market here is without special feature. If anything business has fallen off a little. Stocks are plentiful and quality holds up very well in most things. Roses are very good, especially Beauties, Hadleys and Russells. White roses have been rather on the scarce side. Carnations are still holding their own pretty well. There are plenty of good lilies. Sweet peas have suffered a bit from the warm weather being

(Continued Page 828)



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	Last Half of Week ending June 23 1917	First Half of Week beginning June 25 1917
American Beauty, Special	15.00 to 20.00	20.00 to 25.00
" " Fancy and Extra	10.00 to 15.00	10.00 to 20.00
" " No. 1 and culls.	1.00 to 6.00	1.00 to 6.00
Russell, Euler, Mock .....	.50 to 8.00	.50 to 8.00
Hadley	1.00 to 25.00	1.00 to 20.00
Arenberg, Hoosier Beauty .....	.50 to 5.00	.50 to 4.00
Ward .....	.50 to 4.00	.50 to 4.00
Killarney, Radiance, Taft .....	.50 to 4.00	.50 to 4.00
Ophelia, Sunburst, Hillingdon50 to 4.00	.50 to 4.00
Key50 to 4.00	.50 to 4.00
Carnations25 to 1.00	.25 to 1.00

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Consignments Solicited

MAURICE L. GLASS, Treasurer

Flower Market Reports

(Continued from page 927)

rather soft and not lasting well. Orchids are plentiful and good and moving fairly well at moderate prices. Lily of the valley is selling all right but the quality is nothing to brag about.

The demand for good flowers which according to season, should be about over, continues, although it may slow up and the bottom fall out, as it were, any day. Peonies are about gone, but there are plenty of good roses, including American Beauties. Green stuff is coming in more plentifully than earlier in the season.

Business has been somewhat better this week. Carnations are shortening up considerably; they are becoming smaller and do not bring such good figures. Reds are hard to move but there is a steady sale of good white and pink varieties. Roses are meeting about all demands but they are less plentiful. Ophelias are about as popular as any but good reds sell well. Outdoor larkspur and gailardias are coming in and more satisfactorily as do also peonies, especially the finer varieties, lemon lily and Canterbury bells. Bedding stock lags and many growers are pretty well stocked up with it.

Trade has come to a complete standstill. Stock is fast showing the effects of hot weather. Carnations, especially Pink Enchantress, are poor and unsaleable. Roses hold up fairly well in quality, Ophelia opening up too quickly. Carnations are in poor demand. Sweet peas outdoors are shortening up on stem and another week will see a shortage. New hardy ferns are now starting to come in.

The market will be clear of lily of the valley July 1. There is a marked shortage of pips and the production of valley has stopped. Business is keeping up very well. The presence of the several foreign delegations is bringing considerable business to the stores in the way of dinner decorations. There is the usual run of June weddings and the school decorations this year have been, for the most part, very satisfactory. Roses continue good and there is a marked demand for Russells. Shawyers are in bad shape because of mildew. Carnations, although small, are very good. Orchids are plentiful, and in good demand. There is no demand for peonies.

VISITORS' REGISTER.

Pittsburgh—J. B. Deamud, Vaughan's Seed store, New York.

Philadelphia—Carl Cropp, Vaughan's Seed Store, Chicago, Ill.; Will F. Gude and Ernest Gude (his son), Washington, D. C.

New York—Thomas Roland, Nahant, Mass.; John H. Bodger, Los Angeles, Cal.; Arnold Ringier, Chicago, Ill.; L. J. Reuter, Westerly, R. I.

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NEW YORK QUOTATIONS PER 100. To Dealers Only

MISCELLANEOUS

	Last Half of Week ending June 23 1917		First Half of Week beginning June 25 1917	
Cattleyas	15.00	to 60.00	20.00	to 60.00
Dendrobium formosum.....	.....	to 40.00	.....	to 40.00
Lilies, Longiflorum.....	1.00	to 3.00	1.00	to 3.00
Lilies, Speciosum.....	1.00	to 3.00	1.00	to 3.00
Lily of the Valley.....	4.00	to 6.00	4.00	to 6.00
Snapdragon.....	1.00	to 3.00	1.00	to 3.00
Spanish Iris.....	1.00	to 2.00	1.00	to 2.00
Peonies.....	.50	to 1.00	.50	to 1.00
Gladioli.....	.50	to 3.00	.50	to 3.00
Calendulas.....	.50	to 1.00	.50	to 1.00
Sweet Peas.....	.15	to .50	.15	to .50
Marguerites.....	.50	to 1.00	.50	to 1.00
Gardenias.....	10.00	to 20.00	10.00	to 20.00
Adiantum.....	.50	to 1.00	.50	to 1.00
Smilax.....	15.00	to 20.00	15.00	to 20.00
Asparagus Plumosus, & Spren (too bunches).....	15.00	to 25.00	15.00	to 25.00

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Always Ready to Receive Consignments and Can Market Them Satisfactorily. Wanted Specially, Early Peonies, Gladioli, etc., for Spring Trade.

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Washington, D. C.—A. J. Pannevis, of Koster & Company, Flushing, N. Y.; Robert Pyle, West Grove, Pa.; Joseph Baran, National Plant Preserving Co., New York.

Chicago—F. W. Nelson, repr. the California Cut Flower Co., Los Angeles, and Kentia Nursery, Santa Barbara, Calif.; Thomas Heaven, Bents Harbor, Mich.

Eureka, Cal.—G. Vanden Abele has been appointed superintendent of Cottage Gardens Nurseries, succeeding K. Nyeland, resigned.

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Pittsburgh Cut Flower Co., Pittsburgh, Pa.
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King Construction Co., N. Tonawanda, N. Y.
King Channel Gutter.

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Metropolitan Material Co., Brooklyn, N. Y.
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HAIL INSURANCE

Florists' Hall Asso. of America.
J. G. Esler, Saddle River, N. J.

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HARDY FERNS AND GREEN GOODS

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Michigan Cut Flower Exchange, Detroit, Mich.

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The Kervan Co., New York.
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HARDY PERENNIALS

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P. Ouwerkerk, Hoboken, N. J.
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A. L. Miller, Jamaica, N. Y.
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HEATING APPARATUS

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Lord & Burnham Co., New York City.
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HOSE

Metropolitan Material Co., Brooklyn, N. Y.
Non-Kink Woven Hose.

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H. A. Dreer, Philadelphia, Pa.
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HOSE VALVE

Metropolitan Material Co., Brooklyn, N. Y.
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MOT BED SASH.

Parshelsky Bros., Inc., Brooklyn, N. Y.
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Foley Greenhouse Construction Co., Chicago, Ill.

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Lord & Burnham Co., New York City.
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A. T. Stearns Lumber Co., Neponset, Mass.

MYDRANGEAS

F. R. Pierson, Tarrytown, N. Y.
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INSECTICIDES

Aphine Manufacturing Co., Madison, N. J.
Aphine.

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Nicotine Mfg. Co., St. Louis, Mo.
Aphis Punk and Nikoteen.

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Eastern Chemical Co., Boston, Mass.
Imp. Soap Spray.

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Lemon Oil Co., Baltimore, Md.
Lemon Oil Insecticide.

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Wm. Elliott & Sons, New York City.
Cut Worm Food.

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IRIS

John Lewis Childs, Inc., Flowerfield, N. Y.
Lillums, Lycoris.

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IVIES

A. M. Davenport, Watertown, Mass.
English Ivies.

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LILY BULBS

Chas. Schwake & Co., New York City.
Horticultural Importers and Exporters.

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McHutchison & Co., New York.
Lily Bulbs from Japan.

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Ralph M. Ward & Co., New York City.
For page see List of Advertisers.

J. M. Thorburn & Co., New York City.
Lillum Harrelli Bulbs.

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F. Rynveld & Sons, New York City.
Japanese Lillies.

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Joseph Breck & Sons Corp., Boston, Mass.
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A. Henderson & Co., Chicago, Ill.
Lillum Giganteum.

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Roman J. Irwin, New York City.
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American Bulb Co., Chicago, Ill.
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LILY OF THE VALLEY PIPS

Chas. Schwake & Co., Inc., New York City.
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LIQUID PUTTY MACHINE

Metropolitan Material Co., Brooklyn, N. Y.
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MASTICA

F. O. Pierce Co., New York City.
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NATIONAL NURSERYMAN

National Nurseryman Publishing Co., Inc.
Hathboro, Pa.

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NEW YORK HOTEL ACCOMMODATIONS

Hotel Cumberland, Harry P. Stinson, Mgr.
New York City.

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NIKOTEEEN

Nicotine Mfg. Co., St. Louis, Mo.
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NIKOTIANA

Aphine Mfg. Co., Madison, N. J.
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NURSERY STOCK

R. & J. Farquhar & Co., Boston, Mass.
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P. Ouwerkerk, Weehawken Heights, N. J.
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W. & T. Smith Co., Geneva, N. Y.
For page see List of Advertisers.

The D. Hill Nursery Co., Dundee, Ill.
Hill's Evergreens.

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Bay State Nurseries, North Abington, Mass.
Hardy, Northern Grown Stock.

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Boblink & Atkins, Rutherford, N. J.
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August Reiker & Sons, New York City.
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Cottage Gardens Nurseries, Inc., Eureka, Calif.
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NUT GROWING

The Nut-Grower, Waycross, Ga.
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ORCHID PLANTS

Beechwood Heights Nurseries,
Bound Brook, N. J.

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Julius Roehrs Co., Rutherford, N. J.
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Lager & Hurrell, Summit, N. J.
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HASSALL & CO., Orchid Growers and Raisers, Southgate, London, England. Im-mense stock of Cattleyas.

In writing to Advertisers kindly mention Horticulture

PAINTS AND PUTTY

Metropolitan Material Co., Brooklyn, N. Y.
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PANSY SEED

Michell's Seed House, Philadelphia, Pa.
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PETUNIAS

R. Vincent, Jr. & Sons Co., White Marsh, Md.
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PEONIES

Peonies. The world's greatest collection. 1200 sorts. Send for list. C. BETSCHER, Canal Dover, O.

PECKY CYPRESS BENCHES

Metropolitan Material Co., Brooklyn, N. Y.
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A. T. Stearns Lumber Co., Boston, Mass.

PIPE AND FITTINGS.

Kroeschell Bros. Co., Chicago.
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King Construction Company,
N. Tonawanda, N. Y.
Shelf Brackets and Pipe Hangers.
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Metropolitan Material Co., Brooklyn, N. Y.
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PLANT TUBS

H. A. Dreer, Philadelphia, Pa.
"Riverton Special."

PLANT AND BULB IMPORTS

Chas. Schwake & Co., New York City.
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August Rolker & Sons, New York City.
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McHutchison & Co., New York City.
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POT WASHER

Kelch & Co., Cleveland, Ohio.
The "Presto" Pot Washer.
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REGAL LILY CUT BLOOMS

Patrick Welch, 262 Devonshire St., Boston.
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RHODODENDRONS

P. Ouwerkerk, Hoboken, N. J.
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RIBBONS AND CHIFFONS

S. S. Pennock-Meehan Co., Philadelphia, Pa.
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ROSES

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W. & T. Smith Co., Geneva, N. Y.
American Grown Roses.
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Bay State Nurseries, North Abington, Mass.
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Charles H. Totty, Madison, N. R.
New Rose "Lillian Moore."
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ROSES, CANNAS AND SHRUBS.
THE CONARD & JONES COMPANY,
WEST GROVE, PA.

SASH

Metropolitan Material Co., Brooklyn, N. Y.
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SEASONABLE PLANT STOCK

R. Vincent, Jr. & Sons Co., White Marsh, Md.
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SEEDS

Carter's Tested Seeds.
Boston, Mass., and London, England.
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SEEDS—Continued

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J. Bolgiano & Son, Baltimore, Md.
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A. T. Boddington Co., Inc., New York City.
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Chas. Schwake & Co., New York City.
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Michell's Seed House, Philadelphia, Pa.
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W. Atlee Burpee & Co., Philadelphia, Pa.
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R. & J. Farquhar & Co., Boston, Mass.
Gold Medal Cyclamen Seed.
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J. M. Thorburn & Co., New York City.
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Amt. C. Zvolanek, Lompoc, Cal.
Winter Flowering Sweet Pea Seed.
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Kelway & Son, Langport, England.
Seeds, Selected Strains.
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S. S. Skidelsky & Co., Philadelphia, Pa.
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W. E. Marshall & Co., New York City.
Seeds, Plants and Bulbs.
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August Rolker & Sons, New York City.
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Burnett Bros., 98 Chambers St., New York.
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Leonard Seed Co., Chicago, Ill.
Seeds and Seed Service.
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Roman J. Irwin, New York City.
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S. D. Woodruff & Sons, New York City and
Orange, Conn.
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Thomas J. Grey Co., Boston, Mass.
Seeds, Bulbs, Implements.
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Fottler, Fisk, Rawson Co., Boston, Mass.
Seeds for the Florist

SPHAGNUM MOSS

Live Sphagnum moss, orchid peat and
orchid baskets always on hand. LAGER
& HURRELL, Summit, N. J.

SWEET PEA SEED

Ant. C. Zvolanek, Lompoc, Calif.
Winter Orchid Flowering Peas.
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TREE SURGERY

Davey Tree Expert Co., Kent, Ohio.

VASES

H. Bayersdorfer & Co., Philadelphia, Pa.
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VEGETABLE PLANTS

R. Vincent, Jr. & Sons Co.
White Marsh, Md.
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Celery plants, Golden Self Blanching
(French strain), Giant Paschal, also the
grand new Easy Blanching variety, which
is easy to grow; fine plants, ready for the
field, \$2.00 per 1000, or \$8.75 for 5000. Cash.
BRILL CELERY GARDENS, Kalamazoo,
Mich.

VENTILATING APPARATUS

The Advance Co., Richmond, Ind.
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The John A. Evans Co., Richmond, Ind.
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VERMICIDES

Aphine Mfg. Co., Madison, N. J.
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VINCAS

Vinca variegata from 4 in. pots, price
\$10.00 to \$15.00 per hundred.
WM. CAPSTICK, Auburndale, Mass.

Vinca variegata, 3½ and 4 inch pots, \$10,
\$12 and \$15 per 100. 5 inch pots, \$18, \$20
and \$25 per 100. Cash with order, please.
CHRISTOFFERSON BROS., North Bever-
ly, Mass.

VINES

Flowering and Foliage Vines, choice
collection. Large Specimen, Pot and Tub
grown for immediate effect; also Climbing
Roses. J. H. TROY, Mount Hissarlik Nur-
sery, New Rochelle, N. Y.

WHEAT SHEAVES

H. Bayersdorfer & Co., Philadelphia, Pa.
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WIRED TOOTHPICKS

W. J. Cowee, Berlin, N. Y.
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WIREWORK

Reed & Keller, New York City.
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WILLIAM E. HEILSCHER'S WIRE
WORKS, 284 Randolph St., Detroit, Mich.

WHOLESALE FLORISTS

Albany, N. Y.

Albany Cut Flower Exchange, Albany, N. Y.
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Patrick Welch, 262 Devonshire St.
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H. M. Robinson & Co., 32 Otis St. and 2
Winthrop Sq.
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Bound Brook, N. J.

The Beechwood Heights Nurseries, Thos.
Young, Jr., Prop.
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Brooklyn

Wm. H. Kuebler, 28 Willoughby St.
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Buffalo, N. Y.

William F. Kasting Co., 568-570 Washing-
ton St.
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Chicago

Poehlmann Bros. Co., Merton Grove, Ill.
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J. A. Budlong, 184 North Wabash Ave.
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Zech & Mann, 30 East Randolph St.
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Detroit

Michigan Cut Flower Exchange, 284-286
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H. E. Froment, 148 W. 28th St.
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P. J. Smith, 131 West 28th St.
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Hentz & Nash, 55 and 57 W. 28th St.
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For List of Advertisers See Page 811

Every Reader of "Horticulture" Needs

DR. L. H. BAILEY'S BRAND NEW Standard Cyclopedia of Horticulture

Six large quarto volumes. More than 3,600 pages. 24 full page exquisite color plates. 96 beautiful full page halftones. More than 4,000 text engravings. 500 Collaborators. Approximately 4,000 genera, 20,000 species and 10,000 plant names.

THE New Standard Cyclopedia of Horticulture has been freshly written in the light of the most recent research and experience. It is the fullest, the newest, the most authoritative of all works of its kind and constitutes the most conscientious attempt that has ever been made to compress the whole story of our horticultural thought, learning and achievement into one set of books. It is both an Encyclopedia and a Manual.

A Few of the Many Important New Features

Key to Identification of Plants This is a device to enable one to find the name of a plant. The name thus found is quickly referred to under its alphabetical location, where full information will be found in regard to it.

Synopsis of Plant Kingdom This is one of the most important features of the new edition. It constitutes a general running account of the classes, orders, and groups of plants, with a brief sketch or characterization of 215 of the leading families comprising those that yield practically all the cultivated plants. These family descriptions give the botanical characters; the number of genera and species and the ranges; a list of the important genera; brief statements in regard to the useful plants; and diagrammatic illustrations.

Illustrations There are 24 colored plates; 96 full page halftones; and more than 4,000 engravings which serve as guides in the text.

The Glossary This is an analysis of all technical terms that are used in the work and in similar works. It comprises botanical and horticultural terms with brief definitions.

Translation and Pronunciation of Latin Names In Volume I is inserted a list of between 2,000 and 3,000 Latin words used as species names of plants, giving the English equivalent or translation and the pronunciation.

Class Articles Special effort has been made to secure the best cultural advices for the plants requiring peculiar or particular handling. Here are some of the titles of these articles: Ants; Autumn Gardening; Bedding; Diseases; Drainage; Floral Designs; Formal Gardening; Hotbeds and Coldframes; Insects; Landscape Gardening; Lawn Planting; Orchards; Rock Gardening; Subtropical Gardening; Tools and Implements; Village Improvements; Window Boxes, etc.

General Index The final volume contains a complete index to the entire work, enabling the reader to locate volume and page of any subject he has in mind.

The complete set of six volumes, bound in decorated buckram, will be delivered to you for only \$3 down and \$3 a month for 11 months, until the full amount of \$36 has been paid. Cash price \$35.

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HORTICULTURE, 147 Summer St., Boston, Mass.
Enclosed find \$3 for which send me the "Standard Cyclopedia of Horticulture" in buckram, and I agree to pay you \$3 per month for 11 months until the full amount of \$36 has been paid. (Or cash with the order.)
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Address.....
Reference.....

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Charles Millang, 55 and 57 West 26th St.
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W. P. Ford, 107 W. 28th St.
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J. K. Allen, 118 West 28th St.
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S. S. Pennock-Meehan Co., 117 W. 28th St.
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Traendly & Schenck, 436 6th Ave., between 26th and 27th Sts.
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Paul Meconi, 57 West 28th St.
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Riedel & Meyer, Inc., 49 West 28th St.
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John Young & Co., 53 West 28th St.
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Gunther Bros., 111 West 28th St.
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Herman Weiss, 130 West 28th St.
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Frank Millang, 55-57 West 26th St.
York City.
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WHOLESALE FLORISTS

Philadelphia

Leo. Niessen Co., 12th and Race Sts.
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Edward Reid, 1619-21 Ranstead St.
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The S. S. Pennock-Meehan Co., 1608-20 Ludlow St.
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Richmond, Ind.

E. G. Hill Co.
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Rochester, N. Y.

George B. Hart, 24 Stone St.
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Washington

The S. S. Pennock-Meehan Co., 1216 H St., N. W.
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WANTS, FOR SALE, ETC.

Advertisements in this column one cent a word. Initials count as words. Cash with order. All correspondence addressed "Care HORTICULTURE" should be sent to 147 Summer St., Boston.

SITUATIONS WANTED

SITUATION WANTED by head Gardener, 18 years experience on large private estate. Age 33. Single. Wages \$75 Board Room "G. D. care HORTICULTURE

FOR SALE

For Sale in Pennsylvania on account of poor health, greenhouses, 27,000 feet of glass in good condition, Dwelling House, etc., and 8 acres of land in fine location. This is a good chance for a party with some cash. Possession on short notice. Address "C. D. care HORTICULTURE" FISHING CO., Boston, for particulars.

MISCELLANEOUS

GREENHOUSE WANTED

(About 10,000 square feet)

Would like to exchange cottage house in Swampscott, part payment, 10,000 ft. land, near station, beach, boulevard, worth \$8,000. "H. HORTICULTURE"

When writing to advertisers kindly mention HORTICULTURE.

THE NUT-GROWER

The unique monthly publication which furnishes reliable and interesting up-to-date information regarding the value of pecans and other edible nuts and how to grow them for profit.

Subscription, \$1.00 per year
Sample Copy Free

THE NUT-GROWER

No. 2 Francis St.

WAYCROSS, GA.

Est. 1765

Pot Makers for a
Century and a Half**HEWS****STRONG
RED
POROUS****POTS**

Inc. 1904

World's Largest
ManufacturersStandard, Azalea, Bulb, Orchid, Fern, Hanging, Embossed, Rose, Carnation, Palm, Cyclamen, Cut Flower.
Special Shapes to Order. Chicken Founts, Pigeon Nests, Bean Pots, Etc.Write for Catalogue
and Discounts**A. H. HEWS & CO., Inc., Cambridge, Mass.**Warehouses:
CAMBRIDGE, MASS.
NEW YORK, N. Y.

If you need a boiler in a hurry telephone or telegraph at our expense

KROESCHELL BOILERS

SEND FOR CATALOG

Kroeschell Bros. Co., 466 W. Erie St., Chicago**THE COAL SITUATION.**

Document No. 183, House of Representatives, is a letter from the chairman of the Federal Trade Commission transmitting report on the anthracite and bituminous coal situation and the relation of rail and water transportation to the present fuel problem. It is a document of 29 pages. The present conditions in the anthracite industry and the outlook for anthracite, the impossibility of solving the anthracite problem without action of Congress that will at the same time cure the present evil conditions in the bituminous industry and in transportation, anthracite royalties, the panic conditions and prices in the anthracite trade last fall and winter, the response to the question of the justification of the price increases in May, 1916, in relation to the wage agreement of that date, and the bituminous coal situation these are the principal subjects discussed.

In view of the findings the commission recommends:

First. That the production and distribution of coal and coke be conducted through a pool in the hands of a Government agency; that the producers of various grades of fuel be paid their full cost of production plus a uniform profit per ton (with due allowance for quality of product and efficiency of service).

Second. That the transportation agencies of the United States, both rail and water, be similarly pooled and operated on Government account, under the direction of the President, and that all such means of transportation be operated as a unit, the owning corporations being paid a just and fair compensation which would cover normal net profit, upkeep, and betterments.

Chairman Wm. J. Harris agrees with the recommendations but does not concur with the proposition to pool the transportation agencies on Government account but recommends that during the war the President be au-

thorized to order rail and water transportation agencies to give preference to shipment of coal, coke, and other commodities in the order of their importance to the public welfare.

GREENHOUSES BUILDING OR CONTEMPLATED.

Pekin, Ill.—Hasse Bros., Second St., one house.

Wichita Falls, Tex.—C. H. Wittenbach, one house.

Rochester, Minn.—Queen City Greenhouse Co., range of houses.

Brighton, N. Y.—D. Cohen, Arthur Kill Road, one Jacobs house.

PATENTS GRANTED.

1,230,710. Lawn Mower. Wm. Hill, Alexandria, La.

1,230,793. Soil Pulverizing Wheel. Charles E. Sackett, Danbury, Conn.

1,230,806. Plant Setting Machine. Luther Shaffer, Boone, Iowa.

NEWS NOTES.

Sidney, Ohio—Among the heavy losers in the severe storm of June 2 was C. L. Osborne whose greenhouses were wrecked by hail.

Catskill, N. Y.—An excellent flower show was held here on Wednesday, June 27. Ribbon awards were made to a large number of exhibitors. The affair was managed by the Village Improvement Society.

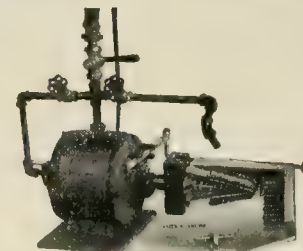
Newark, N. J.—The June flower show of the Prudential Insurance Company was held on June 21 in the assembly room of their building. Forty-seven prizes were awarded in eighteen classes. The exhibit opened at 11 o'clock, continuing until 5 in the afternoon. The Prudential orchestra gave "floral music," the program consisting of ten musical numbers depicting the life of a rose, beginning with "Budding Roses," and ending with "The Last Rose of Summer."

IMPORTANT NOTICE

Certain changes in service regulations at printing office make it necessary that HORTICULTURE'S forms close several hours earlier than heretofore. Important copy arriving on first mail Thursdays can at times be cared for, but correspondents should plan to get matter to this office by Wednesday hereafter.

CLEAN POTS

MAKE POSSIBLE

PERFECT PLANTS**The "Presto" Pot Washer**Electric, Water and Belt
Power

Write Today State Kind of Power

KEETCH & COMPANY

5th Floor, 1240 Huron Rd.

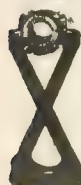
CLEVELAND, O.

Successors to Fowler, Mfg. & Supply Co.

DREER'SFlorist Specialties,
"RIVERTON" Moulded
Garden and Greenhouse
HoseFurnished in lengths up
to 100 ft. without seam or
joint.**The HOSE for the FLORIST**

3/4 inch,	per ft.,	16 c.
Reel of 500 ft.,		15 c.
Reels, 1000 ft.,		14 1/2 c.
1/2-inch,		14 c.
Reels, 500 ft.,		13 c.

Couplings furnished

HENRY A. DREER714-716 Chestnut St.,
PHILADELPHIA, PA.**Evans 20th Century Arm**

Most up-to-date arm on the market. Proof that it is better than any other is that others tried to imitate it. Write for our 1916 catalog just out.

JOHN A. EVANS CO.
Richmond, Ind.**STANDARD FLOWER
POTS**

If your greenhouses are within 500 miles of the Capitol, write us; we can save you money.

W. H. ERNEST

29th & M Sts., Washington, D. C.

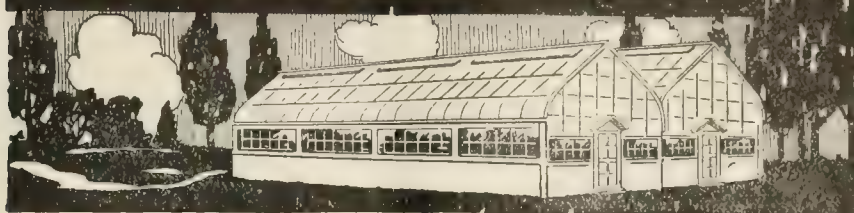
JACOBS BUILT TO LAST GREENHOUSES

The strong, simple construction of Jacobs Greenhouses enables us to keep costs down to a minimum, without affecting durability or utility. In commercial greenhouse building, especially, where costs must be carefully considered, we honestly believe we can give you a "bigger dollar's worth" than the average. Backed by half a century's experience. Write for estimates—today!

S. JACOBS & SONS

1359-1385 Flushing Ave.

Brooklyn, N. Y.



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ARE THE BEST FOR

Iron Frame, Pipe Frame or Wood Frame GREENHOUSES

Estimate and Sketch Submitted Promptly

THE FOLEY GREENHOUSE MFG. CO.

3275 West 31st Street,

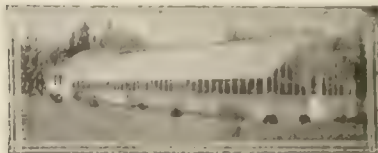
CHICAGO, ILL.

Metropolitan Greenhouses

Revenue Producers

The entire Metropolitan organization is trained to produce economically, speedily and above all satisfactorily.

Its aim is to deliver maximum



quality at the lowest consistent cost

Its field forces are experienced in hastening the owner's revenue from his greenhouse, by speeding its construction.

Its executives make every effort to render a service that is at all times absolutely dependable.

PUT YOUR GREENHOUSE PROBLEMS UP TO US

We go anywhere in the U. S. to submit plans and prices.

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Our prices can be had by mail, and it will pay you to get them. We carry the largest stock of Specially Selected Glass in Greater New York and can supply any quantity from a box to a car load on a one day notice, and at Rock Bottom Prices.

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"SEAL TIGHT LIQUID PUTTY" will not harden, crack or peel off. \$1.35 per gallon in 10 gallon lots. \$1.40 per single gallon.

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No. 2

The Florists Hall Association rate of insurance from Nov. 1st, 1916 to Nov. 1st, 1917 will be twenty cents per hundred square feet of single thick glass and eight cents per hundred square feet of double thick glass. For particulars address JOHN G. ESLEB, Sec., Saddle River, N. J.



GET OUR CATALOGUE
On Ventilating Apparatus and Greenhouse Fittings
ADVANCE CO., RICHMOND, IND.



Glimpse of the site with posts laid out ready for the first house.



A week later the frame of the first house was up.

"Business as Usual" Says the Duckham-Pierson Co.

IF you haven't happened to read that little write-up of the new Duckham-Pierson rose range at Madison, N. J., that appeared in last week's *Exchange*, go straight away and do that very thing.

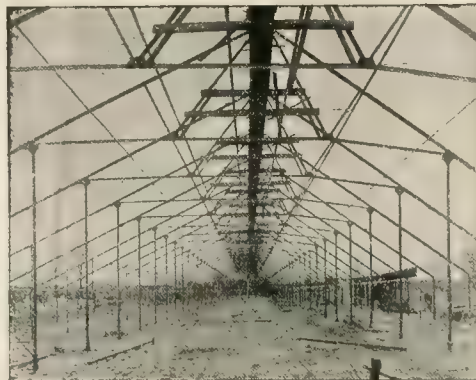
Do it, whether you are interested in the range or not. Do it, because it contains some good sound business sense that you will appreciate.

It's either sense or patriotism, am not sure which. Just now, however, one means the other.

In case you don't look it up, you may like to know a few things about this big rose range that with earnest faith in the country and a prosperity that's bound to be, this company is building at Madison, N. J.

There are 5 Iron Frame Houses and a fine big power plant.

Five houses are being put up now, and the land



This shows our quick shifting scaffold for ridge work.



By looking sharp, you can just see the ridge truss running from rafter to rafter. It amply strengthens it without adding to the shade.

all ready for another later.

Each house is 61 feet wide and 500 feet long, and of the same construction and long roof slope to the south as the last Coddington houses at Murray Hill.

The frame of the first house went up in a week.

Materials were delivered daily by auto trucks from our Elizabeth factory, so this pace could be kept up for the five.

The main rafter and trussing members are all hot riveted together at the factory, so they can be quickly hustled up and all bolted into place in no more time than it used to take to put up just a rafter.

Every once in a while as this big range progresses, we will tell you about it. In the meantime, don't forget that we go anywhere for business—or to talk business.

Hitchings and Company

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40 So. 15th Street

General Offices and Factory, Elizabeth, N. J.

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